



TEST REPORT

Reference No. : WTX24X12296799E
Applicant : Lumi United Technology Co., Ltd.
Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370,
Address : Liuxian Avenue, Fuguang Community, Taoyuan Residential District,
Nanshan District, Shenzhen, China
Manufacturer : Lumi United Technology Co., Ltd.
Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370,
Address : Liuxian Avenue, Fuguang Community, Taoyuan Residential District,
Nanshan District, Shenzhen, China
Product Name : Doorbell Camera Hub G410
Model No. : CH-C09E
Standards : EN 55032:2015+A1:2020
EN 55035:2017+A11:2020
Date of Receipt sample : 2025-03-10
Date of Test : 2025-03-10 to 2025-04-03
Date of Issue : 2025-04-07
Test Report Form No. : WTX_EN 55032_2015_B
Test Result : Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

Prepared By:

Waltek Testing Group (Shenzhen) Co., Ltd.

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Approved by:

Evan Cai/Manager



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Report version

Version No.	Date of issue	Description
Rev.00	2025-04-07	Original
/	/	/

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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	Doorbell Camera Hub G410
Trade Name:	Aqara
Model No.:	CH-C09E
Adding Model(s):	CH-C09D(Doorbell Camera Hub G410), CH-C11E, CH-C11D(Chime Repeater)
<i>Note: The test data is gathered from production sample, provided by the manufacturer. The appearance of others models listed in the report is different from main-test model CH-C09E, but the circuit and the electronic construction do not change, declared by the manufacturer.</i>	

Technical Characteristics of EUT	
Power Supply:	Chime Repeater:DC 5V=1A Doorbell Camera Hub G410:Battery Input: 4.5V=0.5A Wired Input: 12-24V DC 0.5A 12-24V AC 0.2A 50/60Hz
Power Adaptor:	/
Cable:	/
Rated Power:	/
Rated Current:	/
Highest Internal Frequency:	Above 108MHz
Classification of Equipment:	Class B



1.2 Test Standards

The tests were performed according to following standards:

EN 55032:2015+A1:2020: Electromagnetic compatibility of multimedia equipment - Emission requirements

EN 55035:2017+A11:2020: Electromagnetic compatibility of multimedia equipment - Immunity requirements.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the emission/immunity should be checked to ensure compliance has been maintained.

1.3 Test Location

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address:

1/F, Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70

Bao'an District, Shenzhen, Guangdong, China

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1.4 EUT Setup and Operation Mode

The equipment under test (EUT) was configured to measure its highest possible emission/immunity level. The test modes were adapted according to the operation manual for use, more detailed description as follows:

No	Title	Description
TM1	Working Mode	DC 5V (with an adapter input AC 230V/50Hz)

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
Adapter	Xiaomi	MDY-12-EQ	QA622020106645G

1.5 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions (AC Mains 150k - 30MHz)	±3.34dB
Radiated Emissions (30M - 1000MHz)	30-200MHz: ±4.52dB 200-1000MHz: ±5.56dB
Radiated Emissions (above 1GHz)	1-6GHz: ±3.84dB 6-18GHz: ±3.92dB



1.6 Test Equipment List and Details

Conducted emissions from AC mains power ports (150kHz-30MHz)					
Description	Manufacturer	Model	Serial No.	Cal. Date	Due. Date
8-WIRE ISN CAT5	Schwarz beck	8158	CAT5-8158-0 117	2025-02-23	2026-02-22
AC LISN	Schwarz beck	NSLK8126	8126-279	2025-02-23	2026-02-22
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2025-02-23	2026-02-22
EMI Test Receiver	Rohde & Schwarz	ESCI	100525	2025-02-23	2026-02-22
EMI Test Software (Conducted Emission Room 1#)	Farad	EZ-EMC	3A1*CE-RE 1.1.4.3	/	/

Radiated emissions (30MHz-1GHz)					
Chamber 10 m: (Waltek Testing Group Co., Ltd. (Dongguan Branch))					
Description	Manufacturer	Model	Serial No.	Cal. Date	Due. Date
Coaxial Cable (below 1GHz)	Lair Microwave	LE400-NMNM-8M	#02	2025-01-15	2026-01-10
Broadband Preamplifier (9KHz-6GHz)	SCHWARZBECK	BBV9744	00140	2025-01-11	2026-01-10
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	01376	2025-01-11	2026-01-10
Test Receiver (9KHz-7GHz)	R&S	ESR 7	102320	2025-01-10	2026-01-09
Test Software	Farad Technology	EZ-EMC(Ver.EMEC- 3A1)	/	/	/

Radiated emissions (above 1GHz)					
Description	Manufacturer	Model	Serial No.	Cal. Date	Due. Date
Amplifier	Tonscend	TAP01018050	AP22E80623 5	2025-02-23	2026-02-22
Horn Antenna	POAM	RTF-118A	1820	2023-03-10	2026-03-09
EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2025-02-23	2026-02-22
EMI Test Software (Radiated Emission C)	Farad	EZ-EMC	RA-03A1-2 (1.1.4.2)	/	/

Electrostatic discharges					
Description	Manufacturer	Model	Serial No.	Cal. Date	Due. Date
ESD Generator	LIONCEL	ESD-203B	0170901	2025-02-23	2026-02-22



RF electromagnetic field disturbances					
Description	Manufacturer	Model	Serial No.	Cal. Date	Due. Date
Power Meter	Agilent	E4419B	GB42420578	2025-02-23	2026-02-22
Antenna	SCHWARZBECK	STLP 9129	9129 114	/	/
RF Power Amplifier	MicoTop	MPA-1000-6000-100	MPA1906238	2025-02-23	2026-02-22
RF Power Amplifier	MicoTop	MPA-80-1000-250	MPA1906239	2025-02-23	2026-02-22
Power Sensor	Agilent	E9304A	MY55081055	2025-02-23	2026-02-22
Power Sensor	Agilent	E9301A	MY52450001	2025-02-23	2026-02-22
Signal Generator	HP	8665B	3438A00604	2025-02-23	2026-02-22
Test Software (Radio frequency electromagnetic Field)	EMtrace	EM3	V1.2.6.2	/	/

Electrical fast transients / burst for AC mains power ports					
Surges for AC mains power ports					
Voltage dips and interruptions					
Description	Manufacturer	Model	Serial No.	Cal. Date	Due. Date
Couple Clamp	EMC PARTNER	CN-EFT1000	513	2025-02-23	2026-02-22
Transient 2000	EMC PARTNER	TRA2000	836	2025-02-23	2026-02-22

Continuous induced RF disturbances for AC mains power ports (150kHz-80MHz)					
Description	Manufacturer	Model	Serial No.	Cal. Date	Due. Date
EM Clamp	TESEQ	KEMZ801A	45028	2025-02-23	2026-02-22
CDN	LIONCEL	CDN-T8	0210401	2025-02-23	2026-02-22
CDN	Luthi	L-801M2/M3	2665	2025-02-23	2026-02-22
Attenuator	EMTEST	MA-5100/6BF2	1009	2025-02-23	2026-02-22
CONDUCTED IMMUNITY TEST SYSTEM	FRANKONIA	CIT-10/75	126B1247/20 13	2025-02-23	2026-02-22
Test Software (Radio frequency, Continuous conducted)	SKET	EMC-S	V1.4.0.16	/	/

Power frequency magnetic field					
Description	Manufacturer	Model	Serial No.	Cal. Date	Due. Date
Instantaneous PMF Generator Module	LIONCEL	PMF-801C-T	0171001	2025-02-23	2026-02-22
PMF Antenna	LIONCEL	PMF-801C-A	0180302	2025-02-23	2026-02-22
PMF Generator	LIONCEL	PMF-801C-C	0171101	2025-02-23	2026-02-22



2. SUMMARY OF TEST RESULTS

Item	Standard	Method	Result
Conducted emissions from AC mains power ports (150kHz-30MHz)	EN 55032:2015+A1:2020	Clause 7 of CISPR 16-2-1:2014/AMD1:2017	Compliant
Radiated emissions (30MHz-1GHz)	EN 55032:2015+A1:2020	Clause 7.3 of CISPR 16-2-3:2016	Compliant
Radiated emissions (above 1GHz)	EN 55032:2015+A1:2020	Clause 7.6 of CISPR 16-2-3:2016	Compliant
Electrostatic discharges	EN 55035:2017+A11:2020	EN 61000-4-2: 2009	Compliant
RF electromagnetic field disturbances	EN 55035:2017+A11:2020	EN IEC 61000-4-3: 2020	Compliant
Electrical fast transients / burst for AC mains power ports	EN 55035:2017+A11:2020	EN 61000-4-4: 2012	Compliant
Surges for AC mains power ports	EN 55035:2017+A11:2020	EN 61000-4-5: 2014 +A1: 2017	Compliant
Continuous induced RF disturbances for AC mains power ports (150kHz-80MHz)	EN 55035:2017+A11:2020	EN 61000-4-6: 2014	Compliant
Power frequency magnetic field	EN 55035:2017+A11:2020	EN 61000-4-8: 2010	Compliant
Voltage dips and interruptions	EN 55035:2017+A11:2020	EN IEC 61000-4-11:2020	Compliant



3. Emission Test Results (EMI)

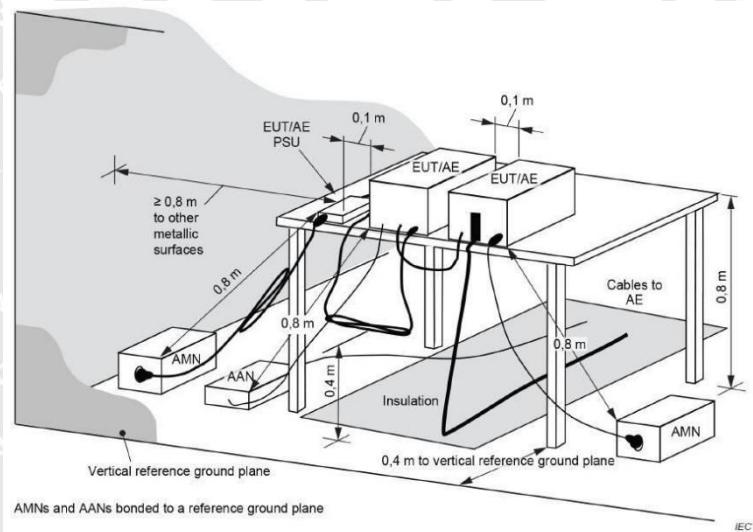
3.1 Conducted emissions from AC mains power ports (150kHz-30MHz)

Test Requirement:	Class B		
Test Limit:	Frequency Range	Limit (Quasi-Peak)	Limit (Average)
	0.15MHz to 0.5MHz	66dB(µV) to 56dB(µV)	56dB(µV) to 46dB(µV)
	0.5MHz to 5MHz	56dB(µV)	46dB(µV)
	5MHz to 30MHz	60dB(µV)	50dB(µV)
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz		
Test Method:	Clause 7 of CISPR 16-2-1:2014/AMD1:2017		
Procedure:	An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected. Remark: Level= Read Level+ Cable Loss+ LISN Factor		

3.1.1 E.U.T. Operation

Environmental Conditions	
Temperature:	23.5 °C
Relative Humidity:	54 %
Atmospheric Pressure:	99.8 kPa
Test mode:	TM1

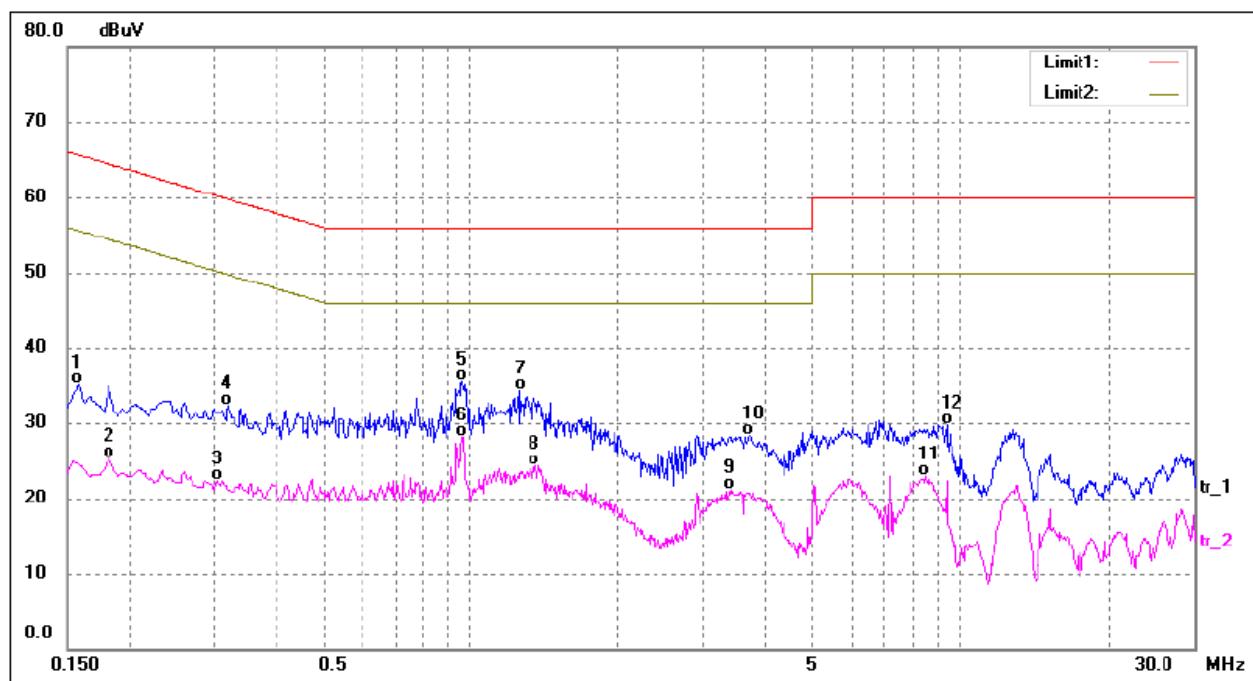
3.1.2 Basic Test Setup Block Diagram



3.1.3 Summary of Test Results



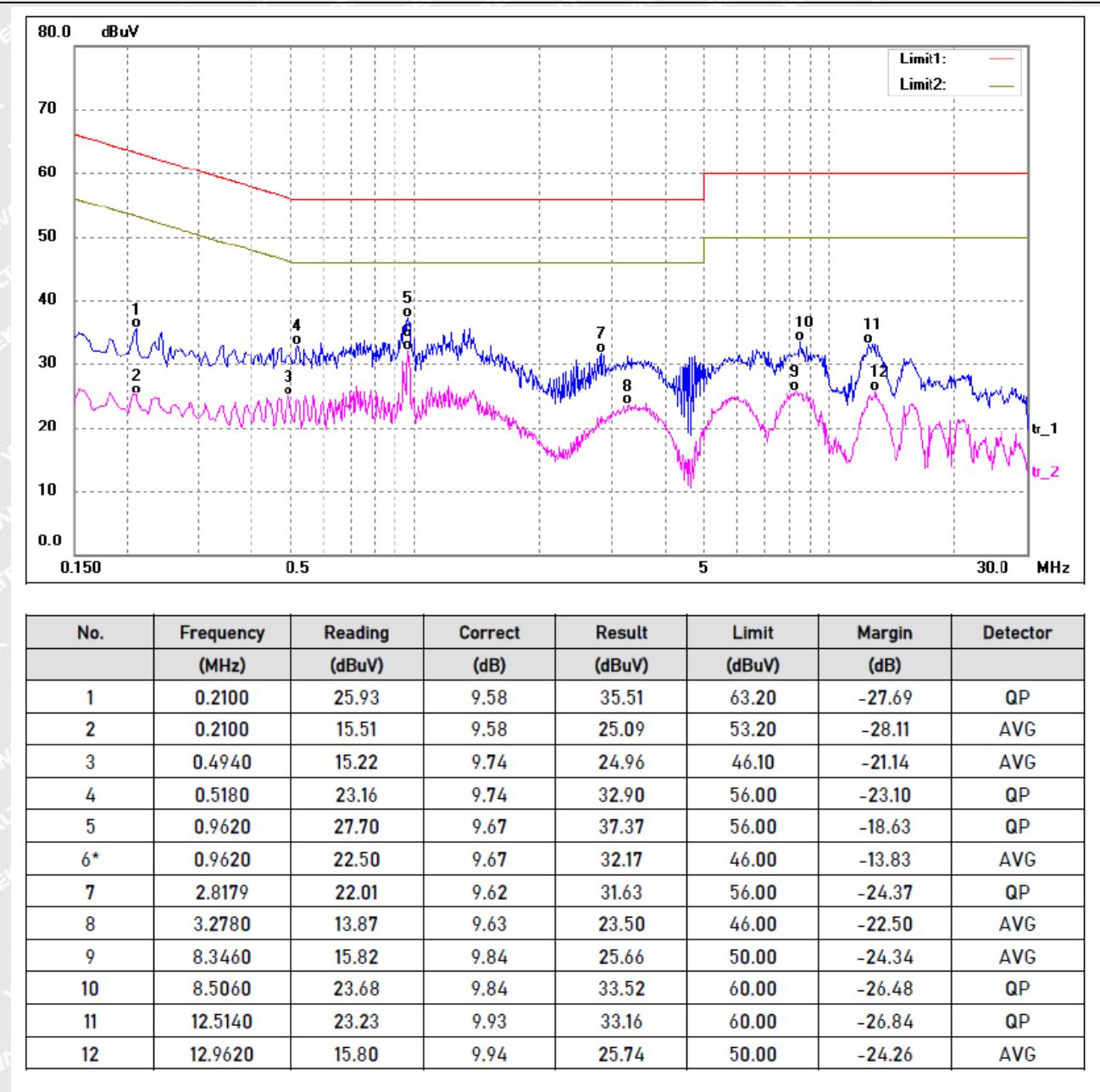
TM1 / Line: Line



No.	Frequency (MHz)	Reading (dB _{UV})	Correct (dB)	Result (dB _{UV})	Limit (dB _{UV})	Margin (dB)	Detector
1	0.1580	25.45	9.73	35.18	65.56	-30.38	QP
2	0.1819	15.70	9.64	25.34	54.39	-29.05	AVG
3	0.3020	12.71	9.64	22.35	50.19	-27.84	AVG
4	0.3180	22.59	9.65	32.24	59.76	-27.52	QP
5	0.9620	25.76	9.67	35.43	56.00	-20.57	QP
6*	0.9620	18.48	9.67	28.15	46.00	-17.85	AVG
7	1.2540	24.59	9.66	34.25	56.00	-21.75	QP
8	1.3540	14.62	9.65	24.27	46.00	-21.73	AVG
9	3.3900	11.46	9.63	21.09	46.00	-24.91	AVG
10	3.7220	18.72	9.66	28.38	56.00	-27.62	QP
11	8.5060	13.07	9.84	22.91	50.00	-27.09	AVG
12	9.3700	19.91	9.87	29.78	60.00	-30.22	QP



TM1 / Line: Neutral





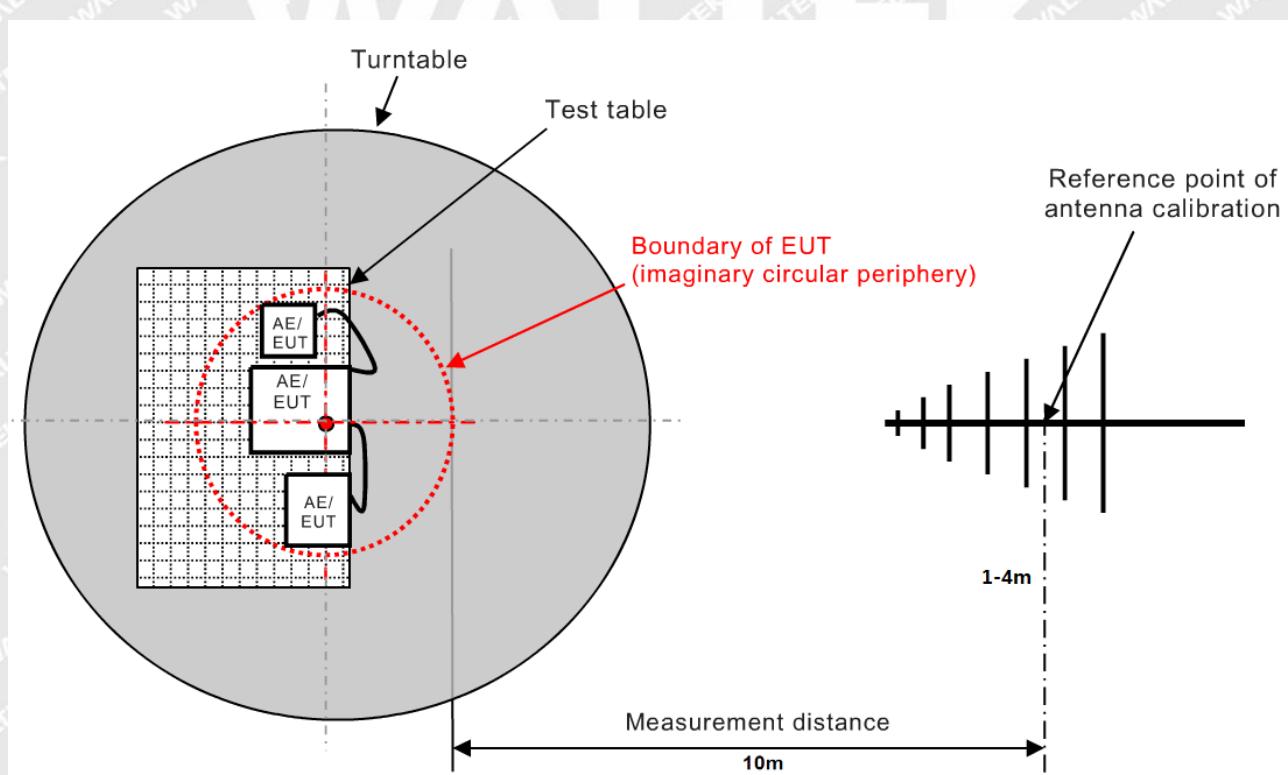
3.2 Radiated emissions (30MHz-1GHz)

Test Requirement:	Class B		
Test Limit:	Frequency (MHz)	Limit [dB(uV/m) at 10m]	Limit [dB(uV/m) at 3m]
	30 to 230	30	40
	230 to 1000	37	47
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz		
Test Method:	Clause 7.3 of CISPR 16-2-3:2016		
Procedure:	<p>An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.</p> <p>Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor</p>		

3.2.1 E.U.T. Operation

Environmental Conditions	
Temperature:	20.5 °C
Relative Humidity:	49.0 %
Atmospheric Pressure:	99.8 kPa
Test mode:	TM1

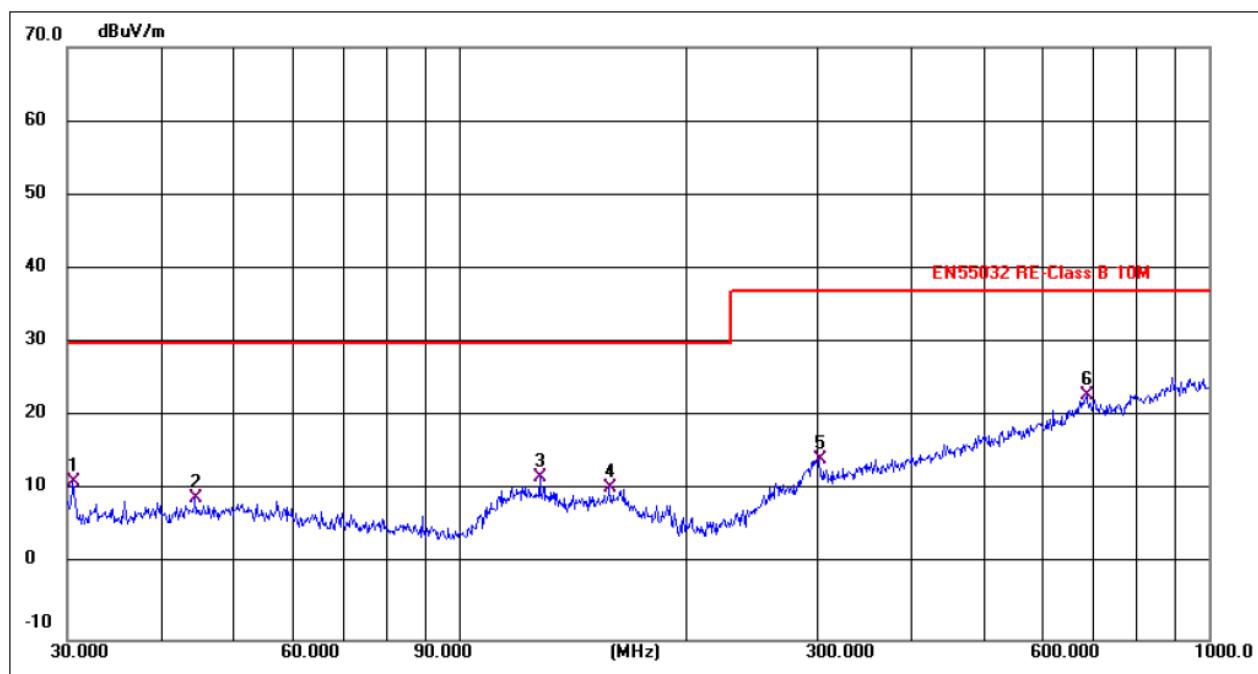
3.2.2 Basic Test Setup Block Diagram





3.2.3 Summary of Test Results

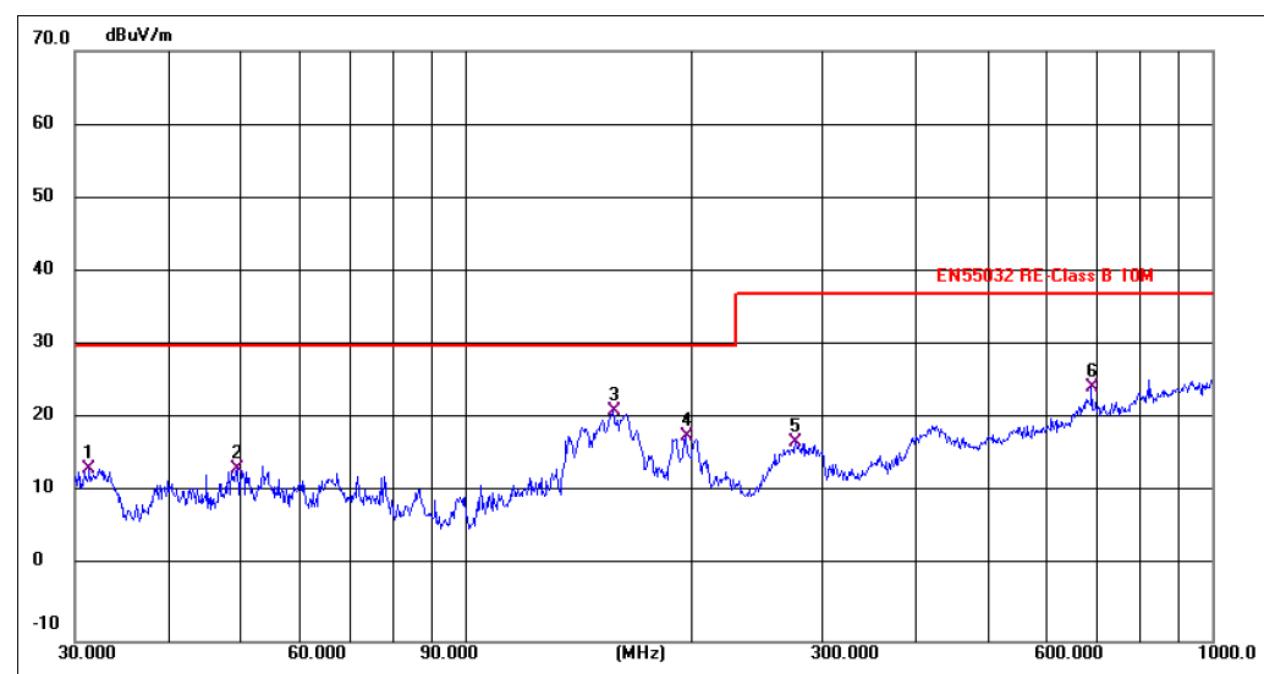
TM1 / Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	30.5306	26.87	-15.50	11.37	30.00	-18.63	QP	200	360	
2	44.4308	23.74	-14.57	9.17	30.00	-20.83	QP	200	360	
3	128.1130	25.02	-13.08	11.94	30.00	-18.06	QP	200	360	
4	158.6677	24.24	-13.73	10.51	30.00	-19.49	QP	200	360	
5	302.4812	27.42	-13.06	14.36	37.00	-22.64	QP	200	360	
6 *	687.1507	23.85	-0.76	23.09	37.00	-13.91	QP	200	360	



TM1 / Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	31.3992	28.85	-15.44	13.41	30.00	-16.59	QP	100	360	
2	49.5328	27.60	-14.27	13.33	30.00	-16.67	QP	100	360	
3 *	157.5588	35.03	-13.76	21.27	30.00	-8.73	QP	100	360	
4	197.2001	35.17	-17.33	17.84	30.00	-12.16	QP	100	360	
5	277.0935	29.88	-12.79	17.09	37.00	-19.91	QP	100	360	
6	689.5644	25.24	-0.83	24.41	37.00	-12.59	QP	100	360	

Note: The 10 m test was tested by Waltek Services (Dongguan Branch) Co., Ltd.



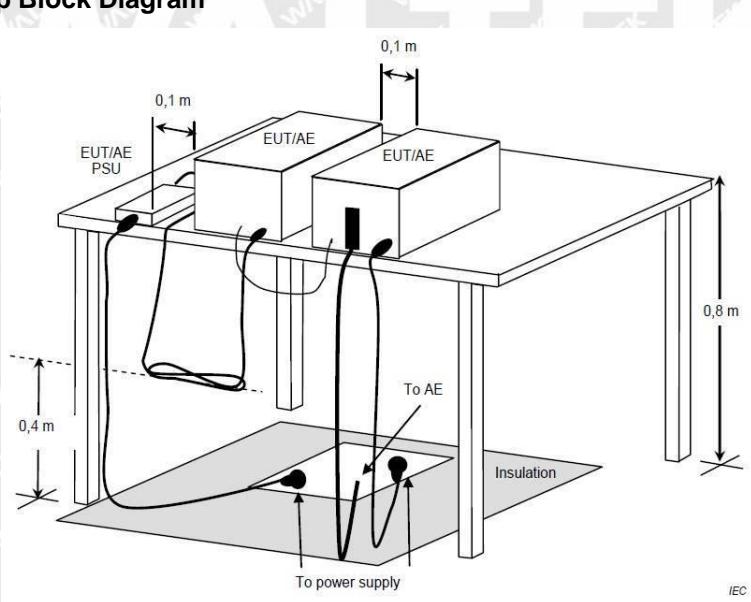
3.3 Radiated emissions (above 1GHz)

Test Requirement:	Class B		
Test Limit:	Frequency (MHz)		Limit (dBuV/m)
	1000 to 6000	Peak	Average
Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000MHz to 6000MHz			74
			54
Test Method:	Clause 7.6 of CISPR 16-2-3:2016		
Procedure:	An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities. Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor		

3.3.1 E.U.T. Operation

Environmental Conditions	
Temperature:	22.5 °C
Relative Humidity:	54 %
Atmospheric Pressure:	99.8 kPa
Test mode:	TM1

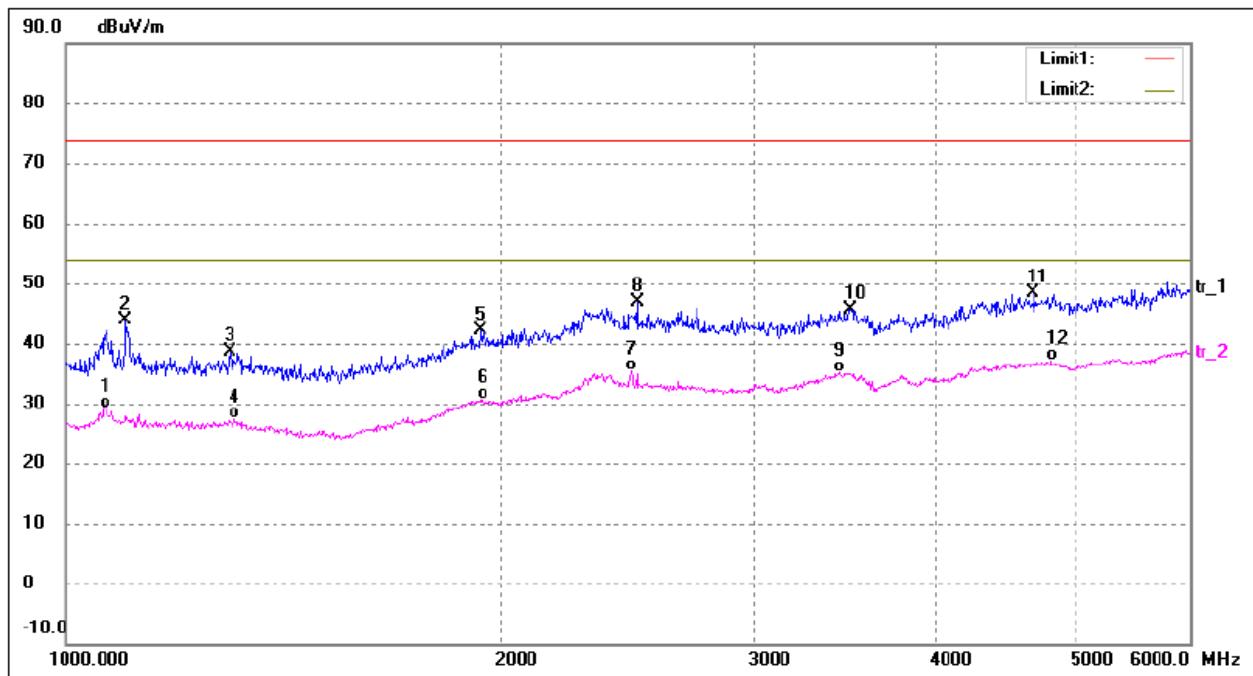
3.3.2 Basic Test Setup Block Diagram



3.3.3 Summary of Test Results



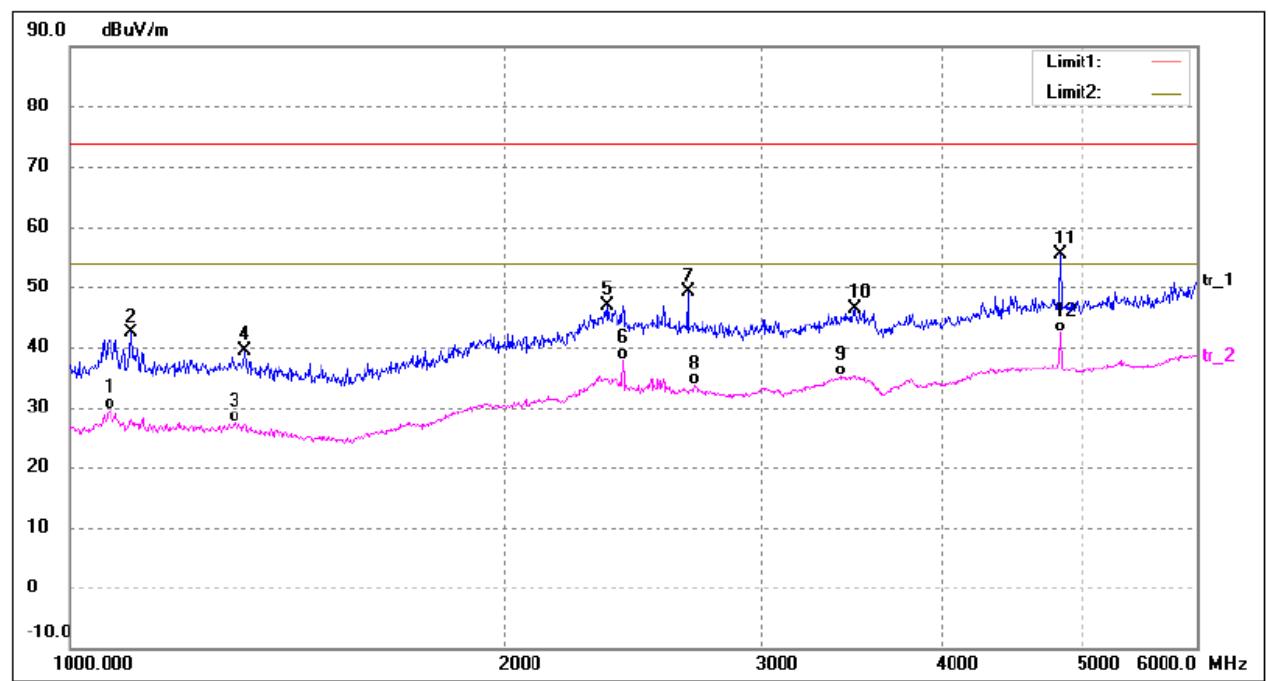
TM1 / Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1064.720	43.29	-14.09	29.20	54.00	-24.80	AVG
2	1099.618	57.83	-14.00	43.83	74.00	-30.17	peak
3	1299.003	52.11	-13.52	38.59	74.00	-35.41	peak
4	1308.346	40.87	-13.50	27.37	54.00	-26.63	AVG
5	1937.036	51.46	-9.33	42.13	74.00	-31.87	peak
6	1940.510	39.87	-9.30	30.57	54.00	-23.43	AVG
7	2462.692	42.44	-7.00	35.44	54.00	-18.56	AVG
8	2484.854	53.76	-6.93	46.83	74.00	-27.17	peak
9	3430.584	40.72	-5.53	35.19	54.00	-18.81	AVG
10	3492.606	51.07	-5.41	45.66	74.00	-28.34	peak
11	4677.225	50.74	-2.48	48.26	74.00	-25.74	peak
12	4813.252	39.42	-2.38	37.04	54.00	-16.96	AVG



TM1 / Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1064.720	43.73	-14.09	29.64	54.00	-24.36	AVG
2	1101.591	56.32	-14.00	42.32	74.00	-31.68	peak
3	1299.003	40.84	-13.52	27.32	54.00	-26.68	AVG
4	1320.120	52.83	-13.48	39.35	74.00	-34.65	peak
5	2350.597	54.34	-7.44	46.90	74.00	-27.10	peak
6	2410.307	45.00	-7.21	37.79	54.00	-16.21	AVG
7	2669.481	55.88	-6.70	49.18	74.00	-24.82	peak
8	2698.334	40.36	-6.66	33.70	54.00	-20.30	AVG
9	3406.085	40.71	-5.58	35.13	54.00	-18.87	AVG
10	3480.112	51.70	-5.44	46.26	74.00	-27.74	peak
11	4830.532	57.80	-2.38	55.42	74.00	-18.58	peak
12	4830.532	44.76	-2.38	42.38	54.00	-11.62	AVG



4. Immunity Test Results (EMS)

General Performance Criteria

The equipment shall continue to operate as intended without operator intervention. No degradation of performance, loss of function or change of operating state is allowed below a performance level specified by the manufacturer when the equipment is used as intended.

The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

During the application of the disturbance, degradation of performance is allowed. However, no unintended change of actual operating state or stored data is allowed to persist after the test.

After the test, the equipment shall continue to operate as intended without operator intervention; no degradation of performance or loss of function is allowed, below a performance level specified by the manufacturer, when the equipment is used as intended.

The performance level may be replaced by a permissible loss of performance.

If the minimum performance level (or the permissible performance loss), or recovery time, is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions. A reboot or re-start operation is allowed. Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.



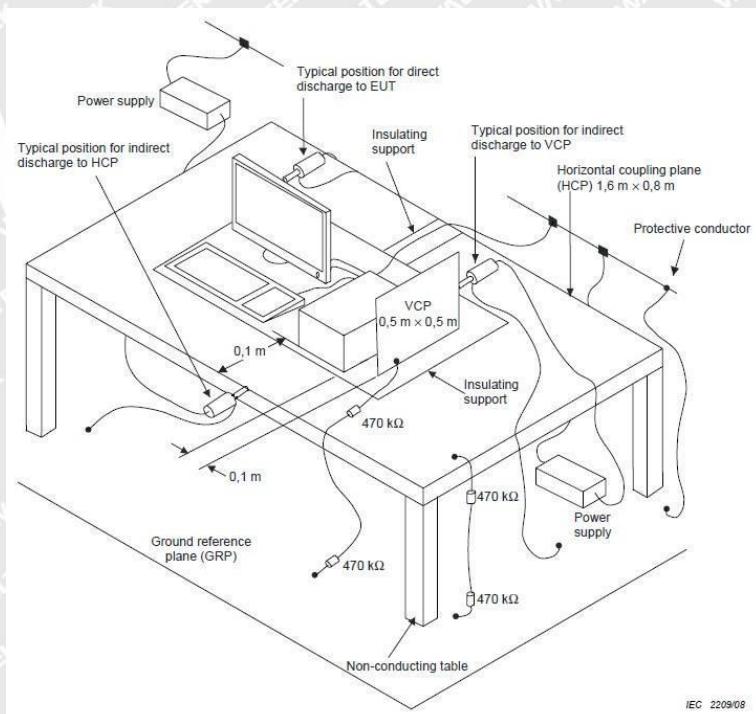
4.1 Electrostatic discharges

Test Requirement:	Contact Discharge: +/- 4kV Air Discharge: +/- 8kV
Test Method:	EN 61000-4-2: 2009
Procedure:	Discharge Impedance: 330Ω/150pF Number of Discharge: Minimum 10 times at each test point Discharge Mode: Single Discharge Discharge Period: 1 second minimum
Performance Criteria:	B

4.1.1 E.U.T. Operation

Environmental Conditions	
Temperature:	23.5 °C
Relative Humidity:	53 %
Atmospheric Pressure:	99.8 kPa
Test mode:	TM1

4.1.2 Basic Test Setup Block Diagram





4.1.3 Summary of Test Results

Discharge type	Volt (kV)	Polarity	Test Point	Result/ Observations
Air discharge	2,4,8	+	1	A
Air discharge	2,4,8	-	1	A
Contact discharge	4	+	2	A
Contact discharge	4	-	2	A
Horizontal Coupling	4	+	3	A
Horizontal Coupling	4	-	3	A
Vertical Coupling	4	+	3	A
Vertical Coupling	4	-	3	A

Test Point: 1. All insulated enclosure and seams.

2. All accessible metal parts of the enclosure.

3. All side.

A: No degradation in the performance of the EUT was observed.

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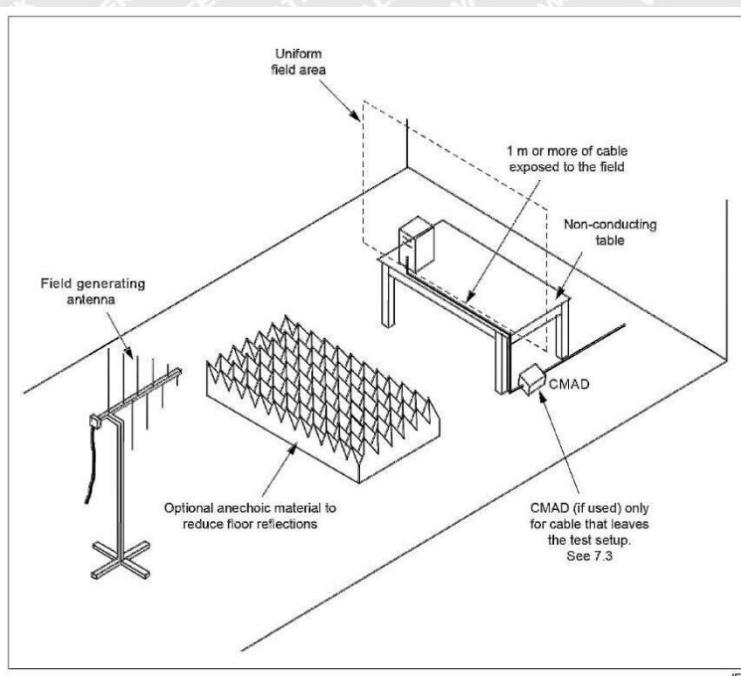
4.2 RF electromagnetic field disturbances

Test Requirement:	3V/m, 80%, 1kHz Amp. Mod.
Test Method:	EN IEC 61000-4-3: 2020
Procedure:	Frequency Range: 80MHz to 1GHz, 1800MHz, 2600MHz, 3500MHz, 5000MHz Antenna Polarisation: Vertical and Horizontal Modulation: 1kHz, 80% Amp. Mod, 1% increment
Performance Criteria:	A

4.2.1 E.U.T. Operation

Environmental Conditions	
Temperature:	22.5 °C
Relative Humidity:	54 %
Atmospheric Pressure:	99.8 kPa
Test mode:	TM1

4.2.2 Basic Test Setup Block Diagram





4.2.3 Summary of Test Results

Frequency	Field Strength (V/m)	EUT face	Dwell time	Result/ Observations
80MHz-1GHz	3	Front	1s	A
80MHz-1GHz	3	Back	1s	A
80MHz-1GHz	3	Left	1s	A
80MHz-1GHz	3	Right	1s	A
80MHz-1GHz	3	Top	1s	A
80MHz-1GHz	3	Bottom	1s	A
1800MHz	3	Front	1s	A
1800MHz	3	Back	1s	A
1800MHz	3	Left	1s	A
1800MHz	3	Right	1s	A
1800MHz	3	Top	1s	A
1800MHz	3	Bottom	1s	A
2600MHz	3	Front	1s	A
2600MHz	3	Back	1s	A
2600MHz	3	Left	1s	A
2600MHz	3	Right	1s	A
2600MHz	3	Top	1s	A
2600MHz	3	Bottom	1s	A
3500MHz	3	Front	1s	A
3500MHz	3	Back	1s	A
3500MHz	3	Left	1s	A
3500MHz	3	Right	1s	A
3500MHz	3	Top	1s	A
3500MHz	3	Bottom	1s	A
5000MHz	3	Front	1s	A
5000MHz	3	Back	1s	A
5000MHz	3	Left	1s	A
5000MHz	3	Right	1s	A
5000MHz	3	Top	1s	A
5000MHz	3	Bottom	1s	A

A: No degradation in the performance of the EUT was observed.



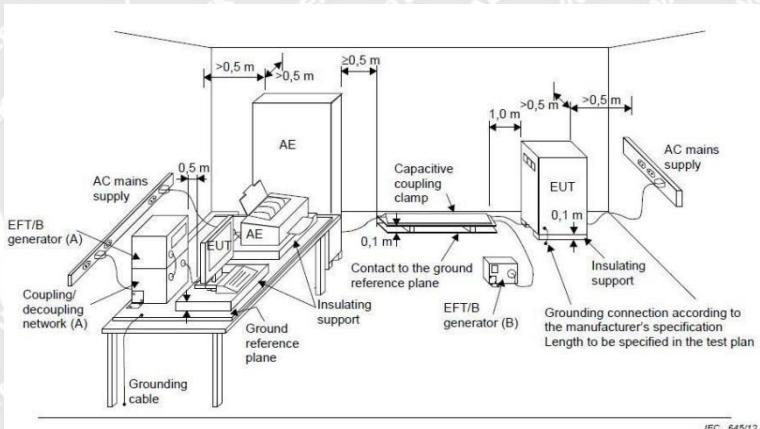
4.3 Electrical fast transients / burst for AC mains power ports

Test Requirement:	1kV; 5/50ns Tr/Th; 5kHz Repetition Frequency
Test Method:	EN 61000-4-4: 2012
Procedure:	Repetition Frequency: 5kHz Burst Period: 300ms Test Duration: 2 minute per level & polarity
Performance Criteria:	B

4.3.1 E.U.T. Operation

Environmental Conditions	
Temperature:	23 °C
Relative Humidity:	53.5 %
Atmospheric Pressure:	99.8 kPa
Test mode:	TM1

4.3.2 Basic Test Setup Block Diagram



4.3.3 Summary of Test Results

Port	Volt (kV)	Polarity	CDN/ Clamp	Result/ Observations
AC power port	1	+	CDN	A
AC power port	1	-	CDN	A

A: No degradation in the performance of the EUT was observed.



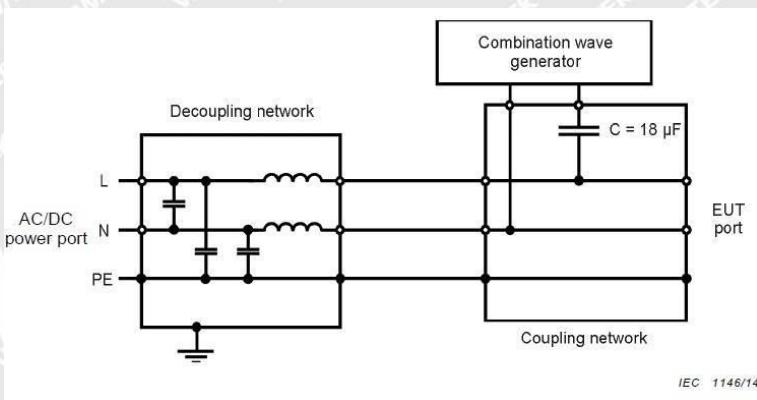
4.4 Surges for AC mains power ports

Test Requirement:	1.2/50μs Tr/Td; 1kV Line to Line
Test Method:	EN 61000-4-5: 2014 +A1: 2017
Procedure:	Interval: 60s between each surge No. of surges: 5 positive, 5 negative at 90°, 270°
Performance Criteria:	B

4.4.1 E.U.T. Operation

Environmental Conditions	
Temperature:	23 °C
Relative Humidity:	53.5 %
Atmospheric Pressure:	99.8 kPa
Test mode:	TM1

4.4.2 Basic Test Setup Block Diagram



4.4.3 Summary of Test Results

Port	Volt (kV)	Polarity	Phase(degree)	Result/ Observations
L-N	1	+	90°	A
L-N	1	-	270°	A

A: No degradation in the performance of the EUT was observed.



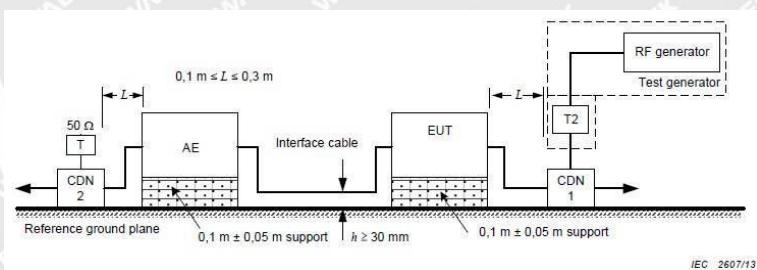
4.5 Continuous induced RF disturbances for AC mains power ports (150kHz-80MHz)

Test Requirement:	0,15 to 10MHz 3Vrms (emf), 10 to 30MHz 3V to 1Vrms(emf), 30 to 80MHz 1Vrms(emf), 80%,1kHz Amp. Mod.
Test Method:	EN 61000-4-6: 2014
Procedure:	Frequency Range: 0.15MHz to 80MHz Modulation: 80%, 1kHz Amplitude Modulation Step Size: 1%
Performance Criteria:	A

4.5.1 E.U.T. Operation

Environmental Conditions	
Temperature:	23.5 °C
Relative Humidity:	53 %
Atmospheric Pressure:	99.8 kPa
Test mode:	TM1

4.5.2 Basic Test Setup Block Diagram



4.5.3 Summary of Test Results

Port	Strength (Vrms)	CDN/Clamp	Dwell time	Result/ Observations
AC power port	3(0.15MHz-10MHz)	CDN	1s	A
AC power port	3 to 1(10MHz-30MHz, Lines)	CDN	1s	A
AC power port	1(30MHz-80MHz)	CDN	1s	A

A: No degradation in the performance of the EUT was observed.



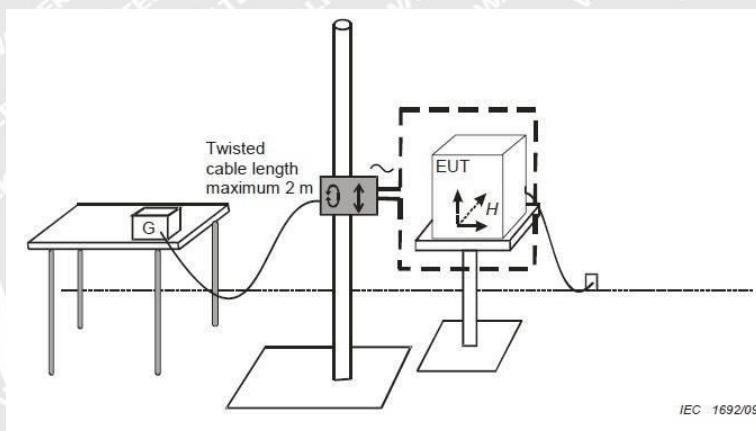
4.6 Power frequency magnetic field

Test Requirement:	50 or 60Hz, 1 A/m
Test Method:	EN 61000-4-8: 2010
Procedure:	50 or 60Hz, 1 A/m
Performance Criteria:	A

4.6.1 E.U.T. Operation

Environmental Conditions	
Temperature:	23.3 °C
Relative Humidity:	55 %
Atmospheric Pressure:	99.8 kPa
Test mode:	TM1

4.6.2 Basic Test Setup Block Diagram



4.6.3 Summary of Test Results

Frequency	Strength (A/m)	Axial	Magnetic Field Type	Result/ Observations
50Hz/ 60Hz	1	X	Continuous filed	A
50Hz/ 60Hz	1	Y	Continuous filed	A
50Hz/ 60Hz	1	Z	Continuous filed -	A

A: No degradation in the performance of the EUT was observed.



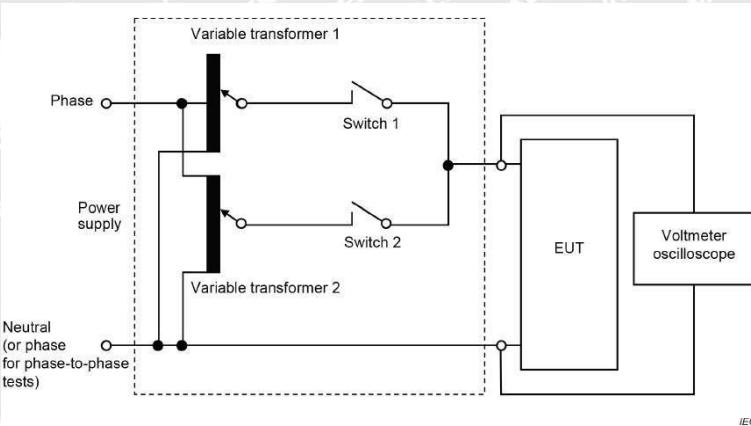
4.7 Voltage dips and interruptions

Test Requirement:	<5% residual voltage for 0.5 periods 70% residual voltage: 25 periods for 50Hz, 30 periods for 60Hz <5% residual voltage: 250 periods for 50Hz, 300 periods for 60Hz
Test Method:	EN IEC 61000-4-11:2020
Procedure:	<5% residual voltage for 0.5 period 70% residual voltage: 25 periods for 50Hz, 30 periods for 60Hz <5% residual voltage: 250 periods for 50Hz, 300 periods for 60Hz No. of Dips / Interruptions: 3 per Level Time between dropout: 10s
Performance Criteria:	B, C, C

4.7.1 E.U.T. Operation

Environmental Conditions	
Temperature:	23 °C
Relative Humidity:	53.5 %
Atmospheric Pressure:	99.8 kPa
Test mode:	TM1

4.7.2 Basic Test Setup Block Diagram



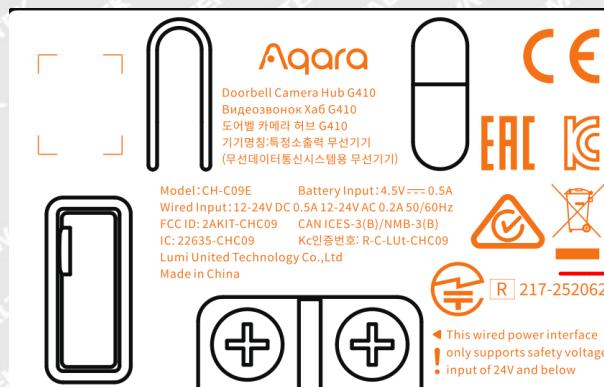
4.7.3 Summary of Test Results

Level %UT	Phase (degree)	Duration	No. of Dips/ Interruptions	Result/ Observations
0	0°	0.5 Cycles	3	A
0	0°	250 Cycles	3	B
70	0°	25 Cycles	3	B



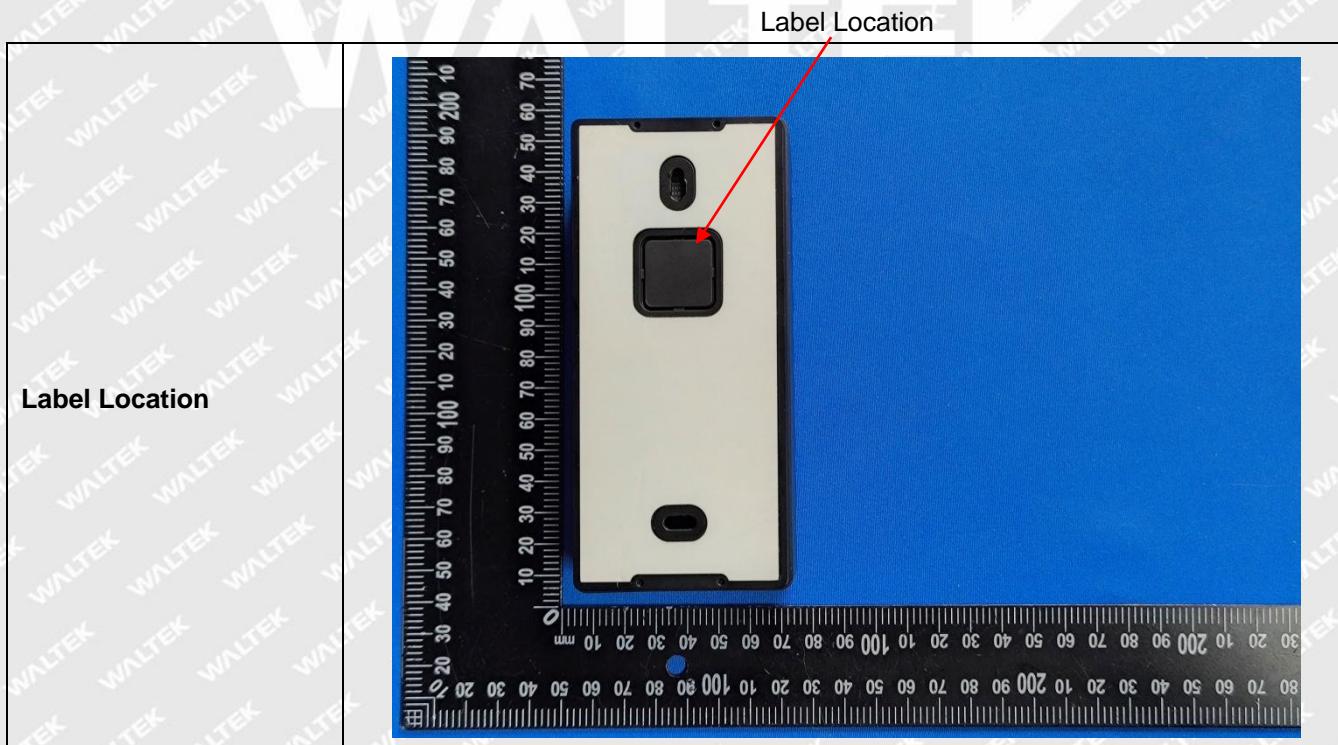
5. EXHIBIT 1 - PRODUCT LABELING

5.1 Proposed Label Format



Specifications: Text is Black in color and is justified. Labels are printed in indelible ink on permanent adhesive backing or silk-screened onto the EUT or shall be affixed at a conspicuous location on the EUT. The 'CE' marking must be affixed to the EUT or to its data plate. Where this is not possible or not warranted on account of the nature of the apparatus, it must be affixed to the packaging, if any, and to the accompanying documents. The 'CE' marking must have a height of at least 5 mm. If the 'CE' marking is reduced or enlarged the proportions given in the above graduated drawing must be respected. The Importer name, address and Manufacturer name and address should indicate on marking label or packaging or in a document accompanying.

5.2 Proposed Label Location of EUT



6. EXHIBIT 2 - EUT PHOTOGRAPHS

External

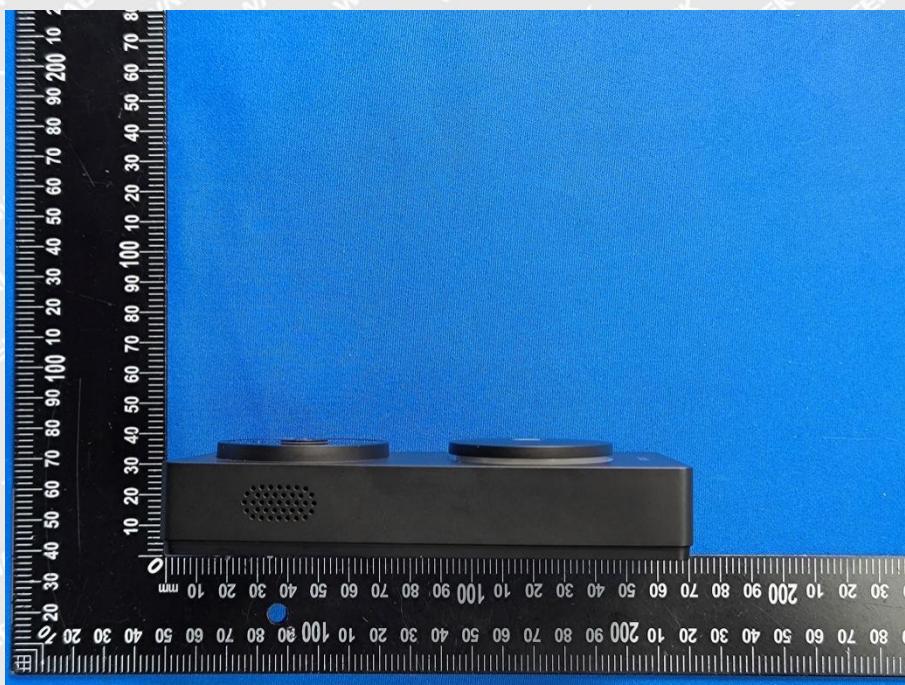
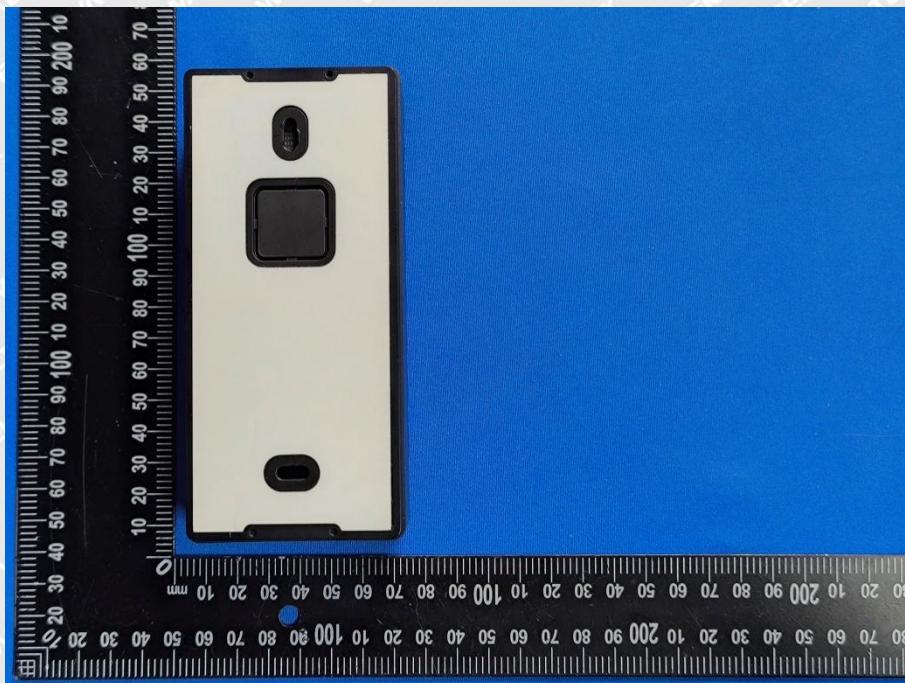


Model: CH-C09E, CH-C09D(Doorbell Camera Hub G410)



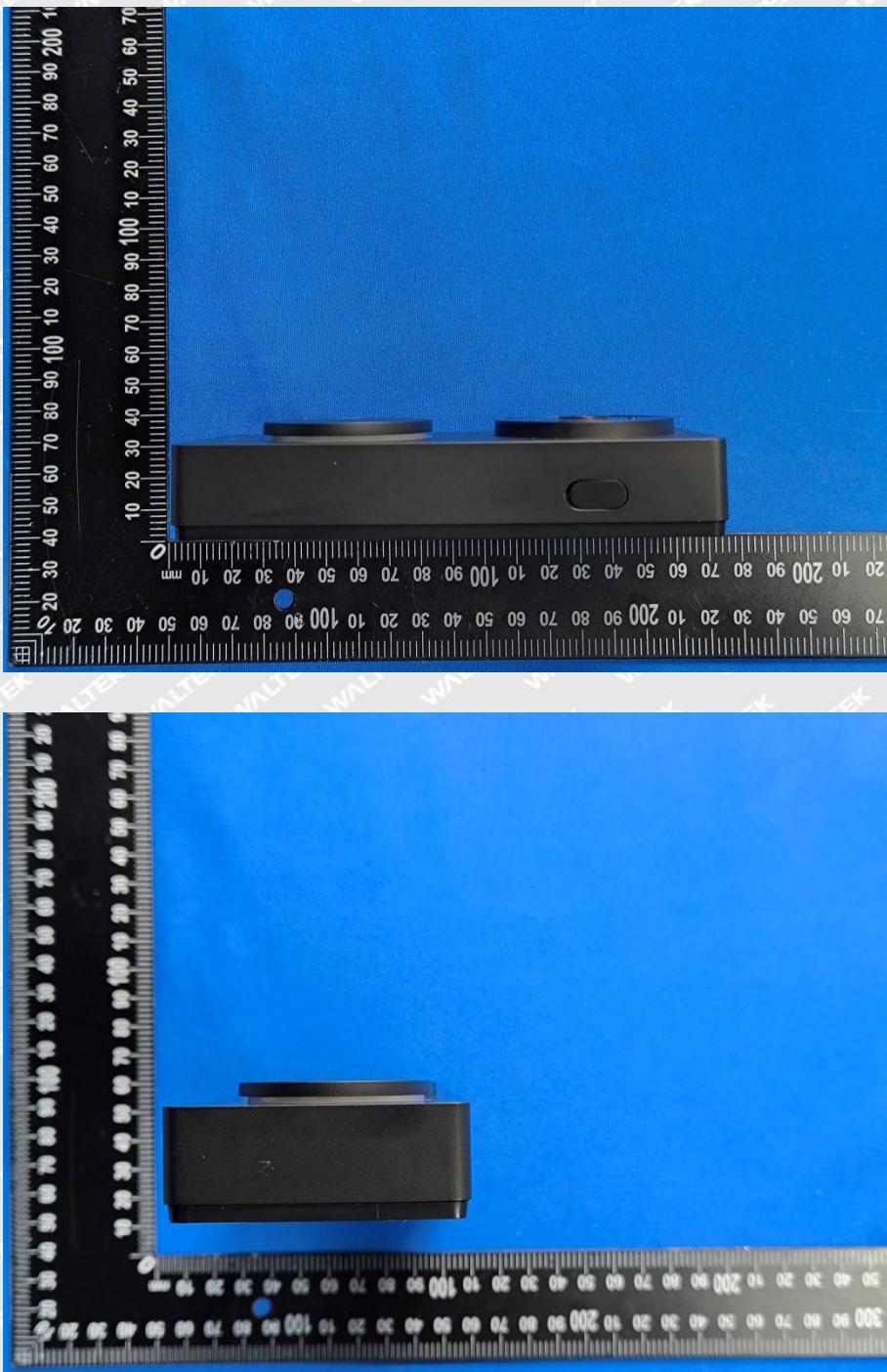


Reference No.: WTX24X12296799E



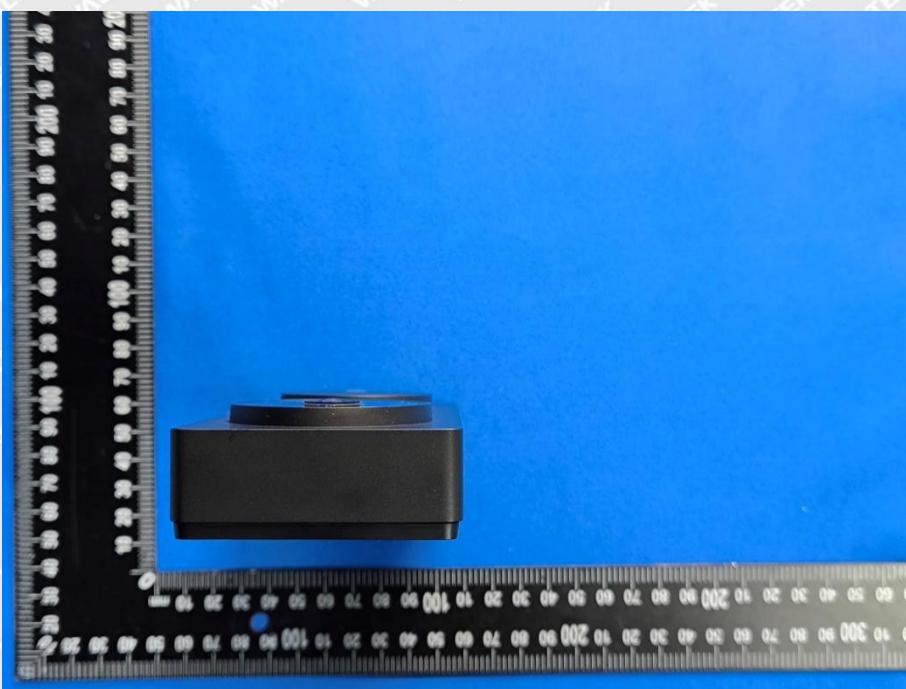


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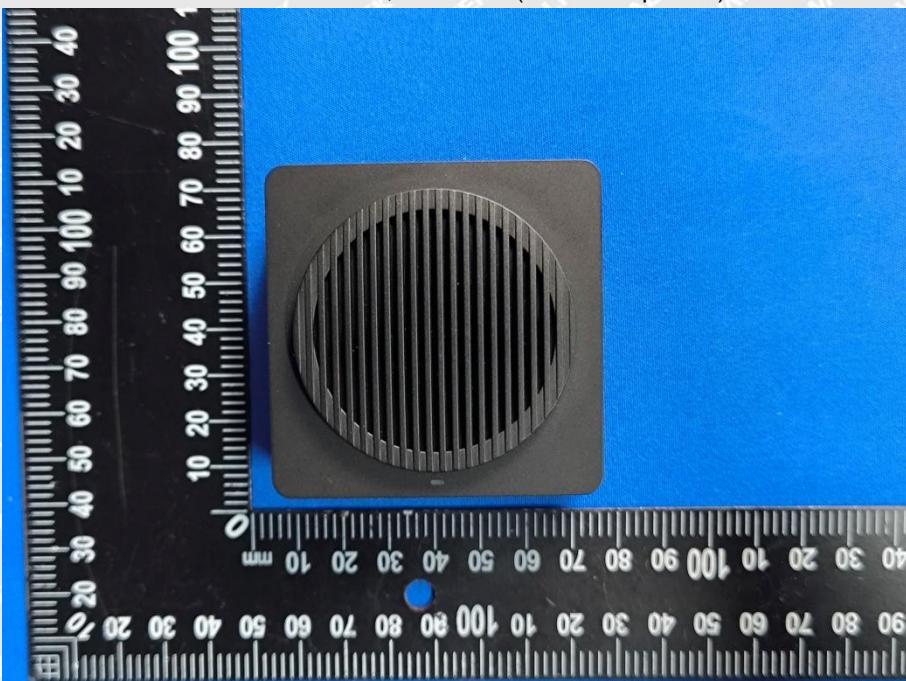


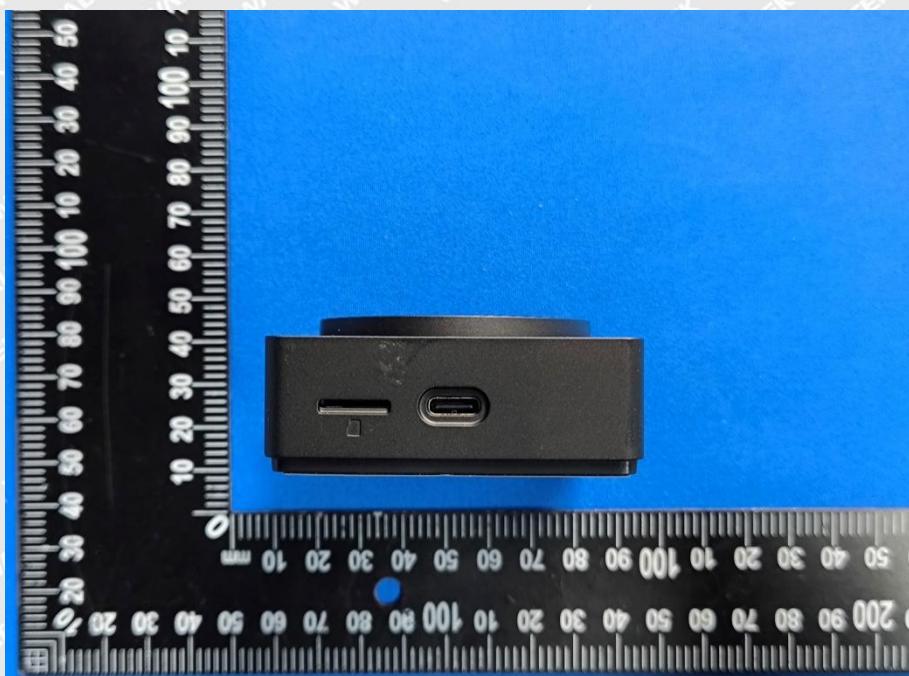
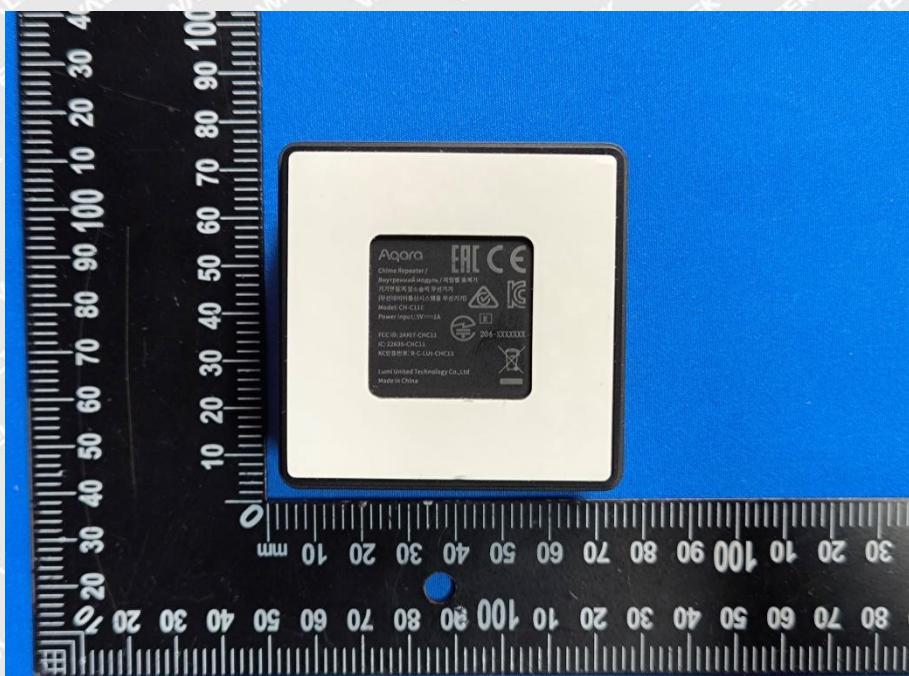


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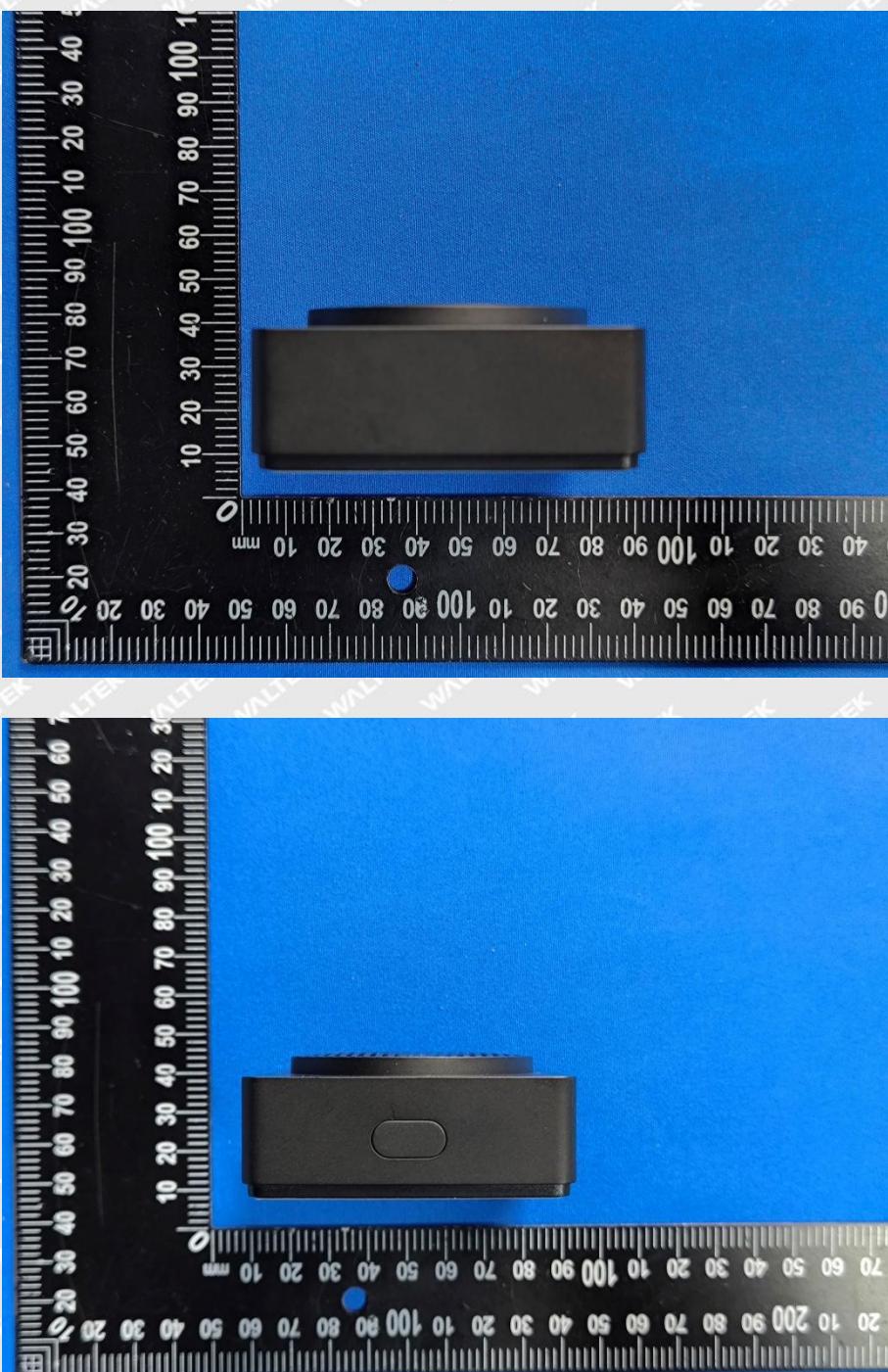
Model: CH-C11E, CH-C11D(Chime Repeater)





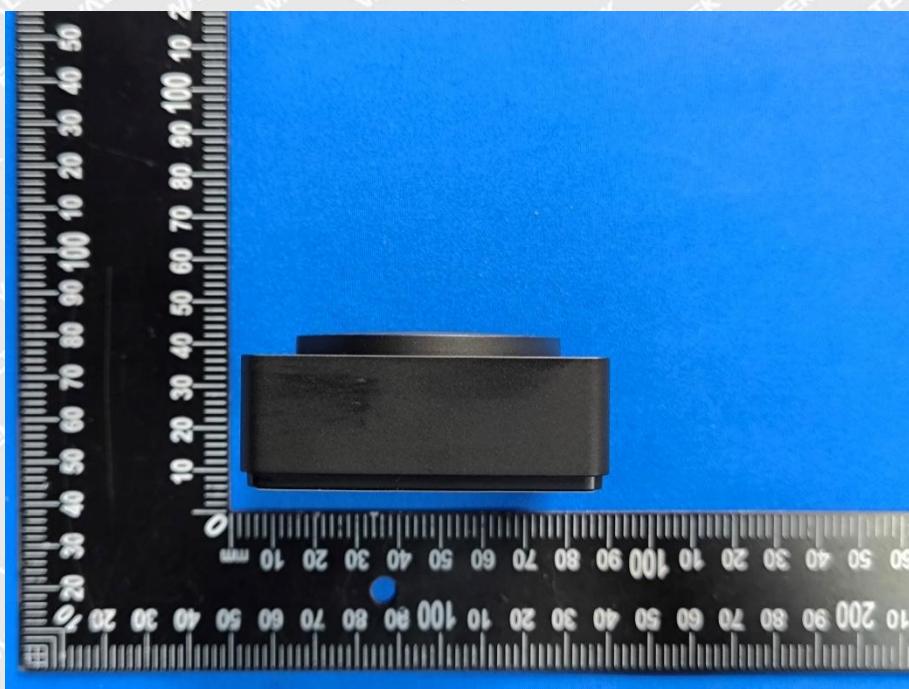


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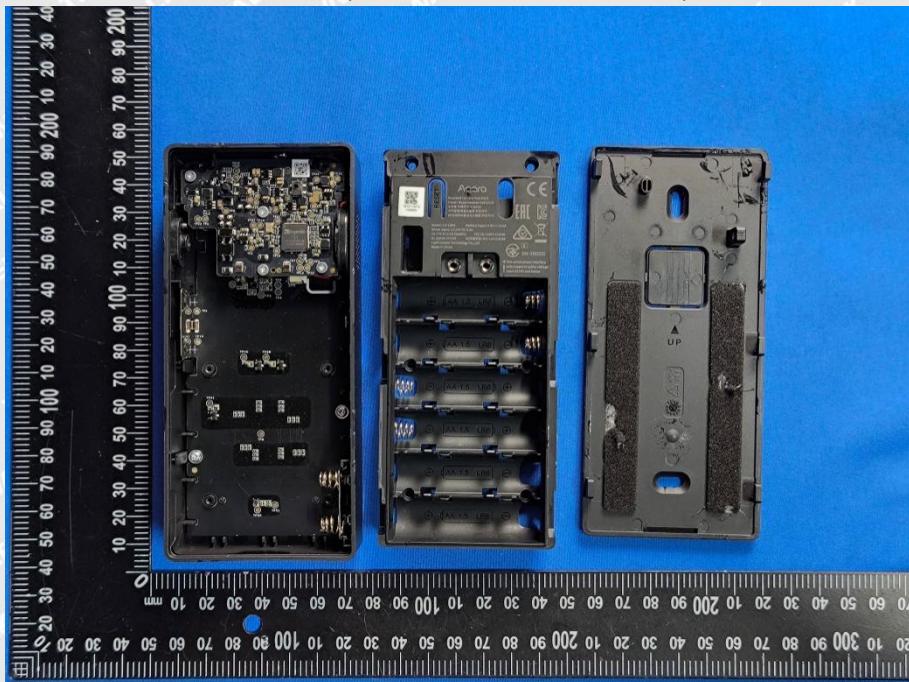


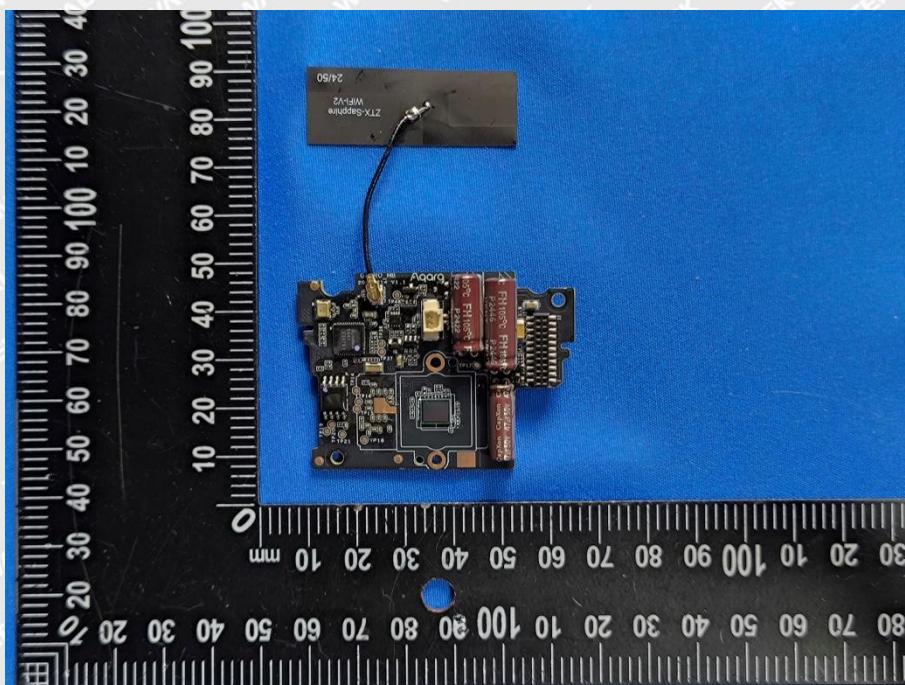
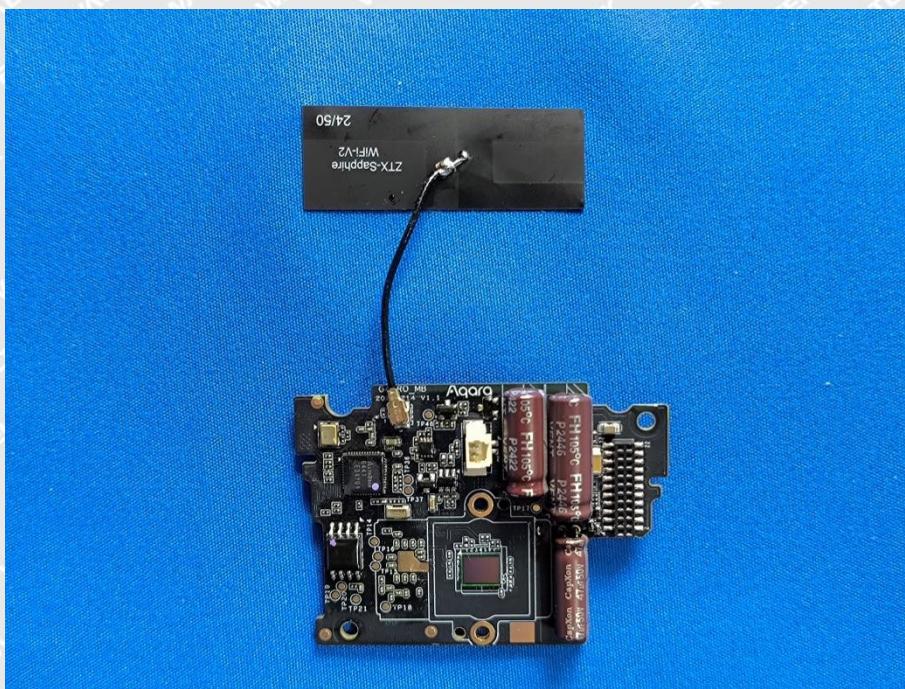


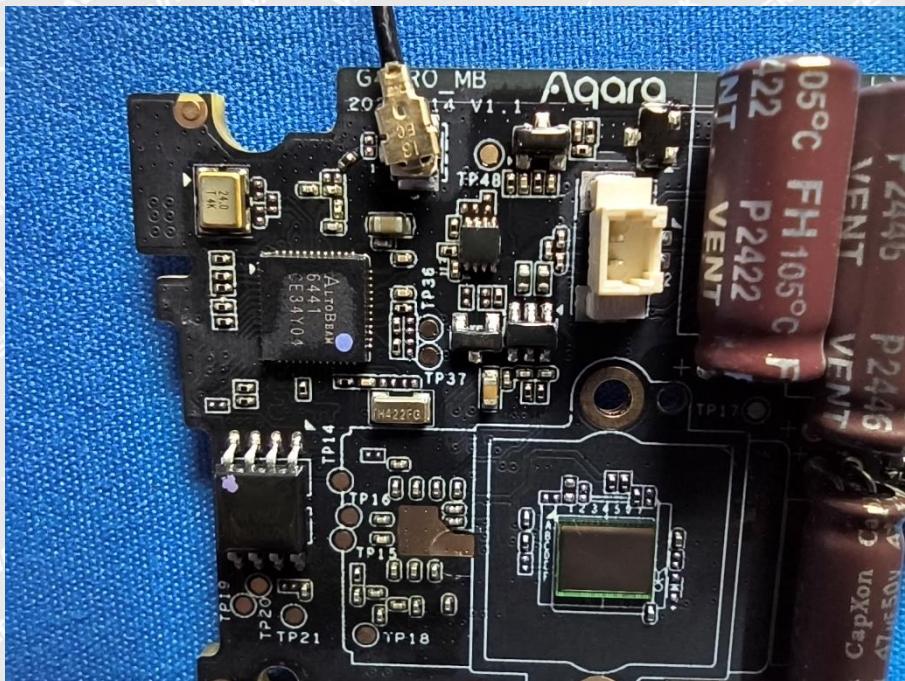
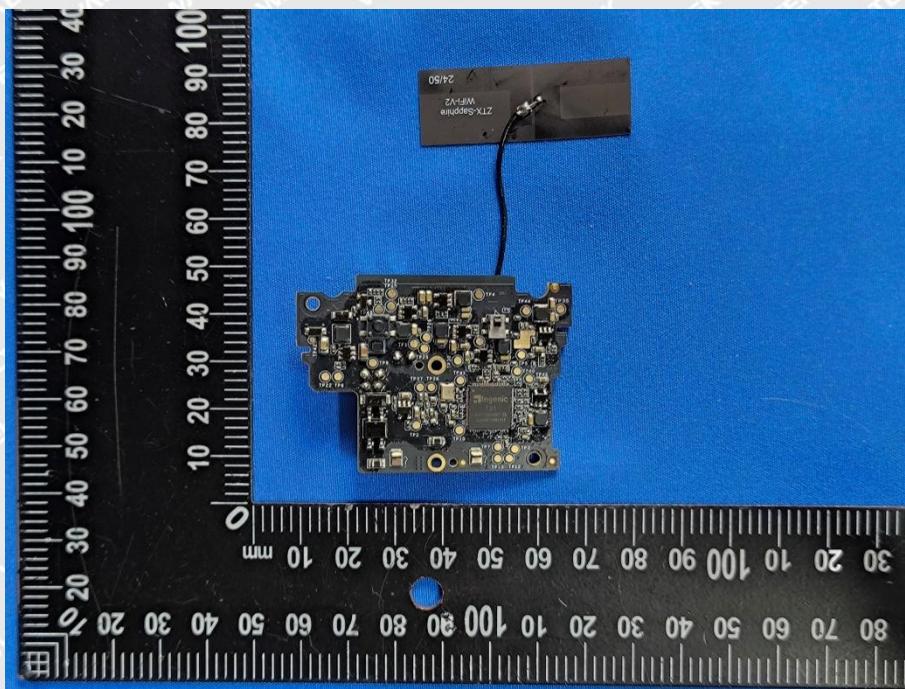
Reference No.: WTX24X12296799E



Internal
CH-C09D(Doorbell Camera Hub G410)

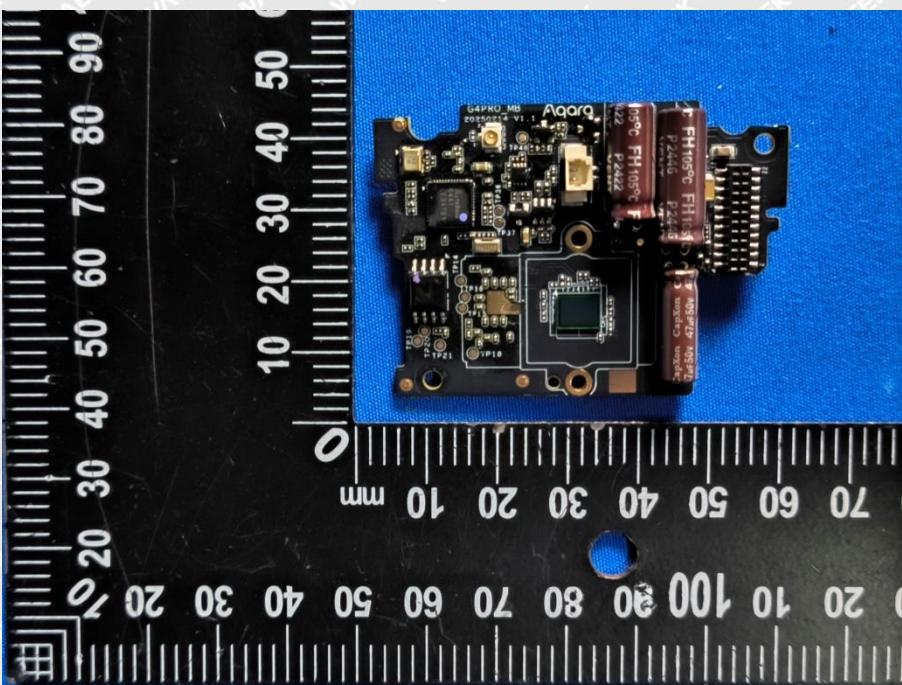
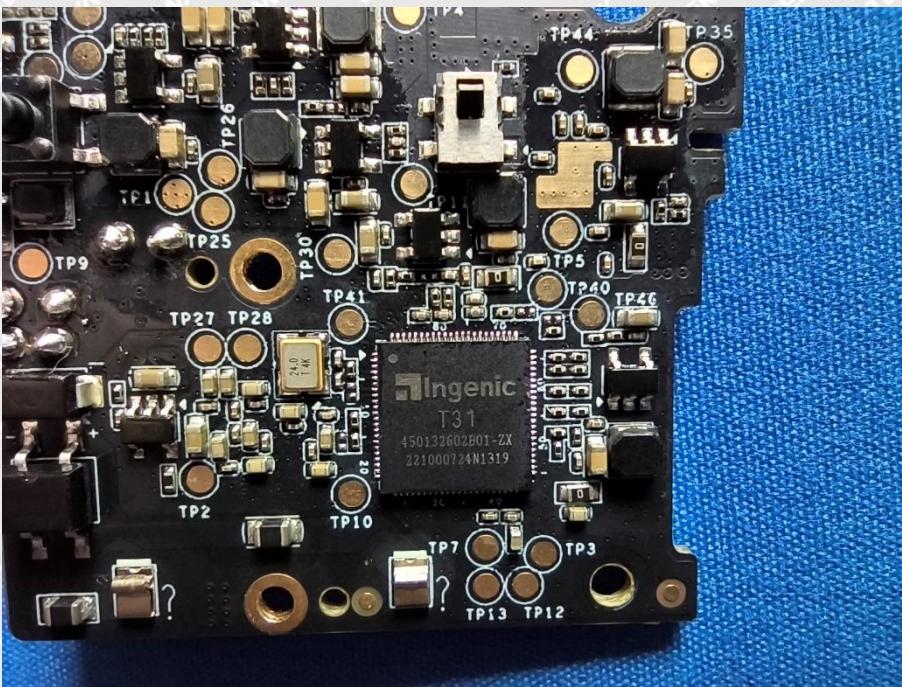


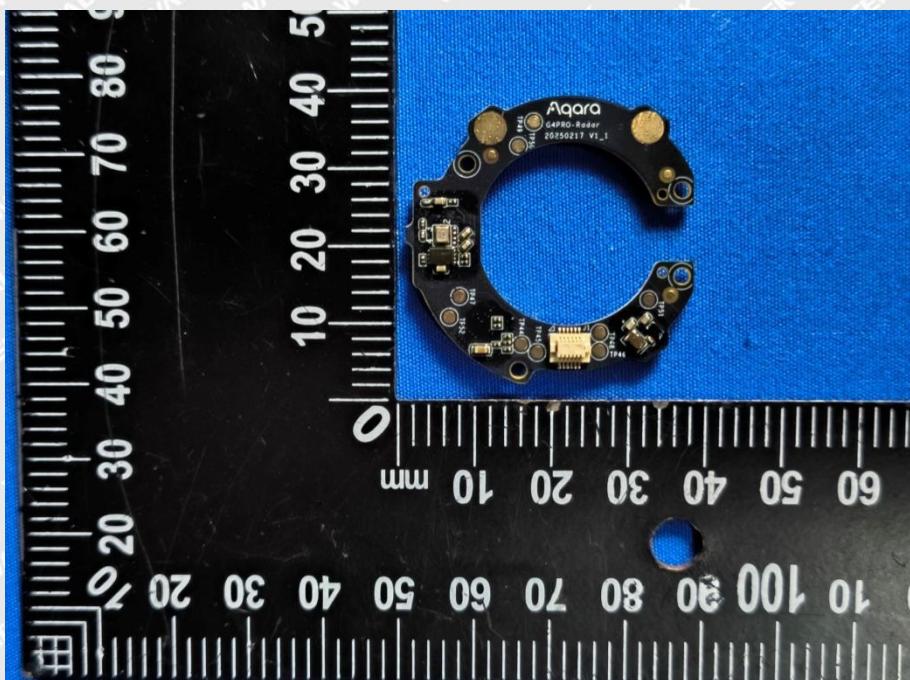
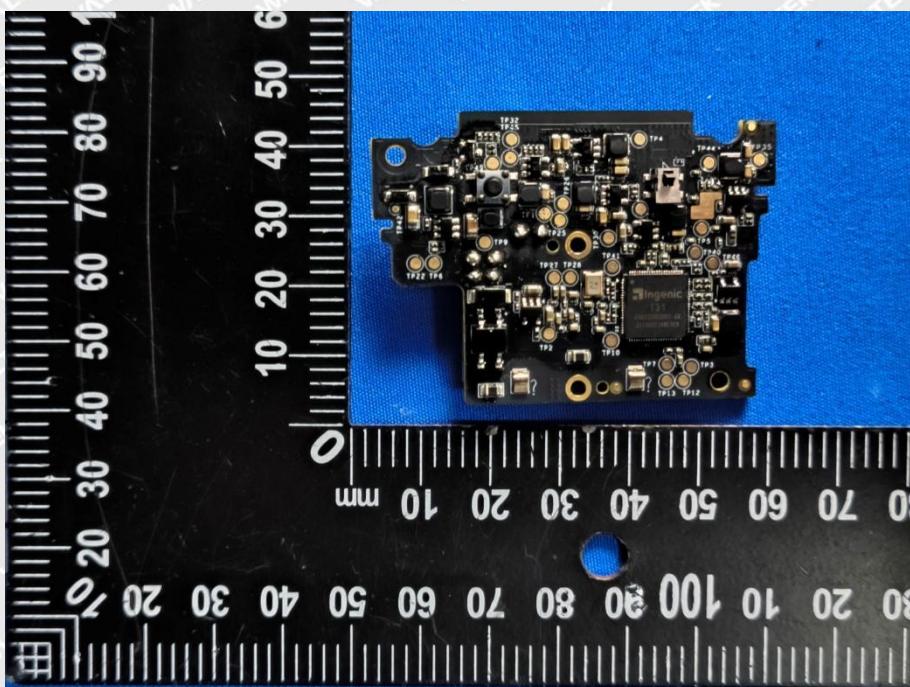


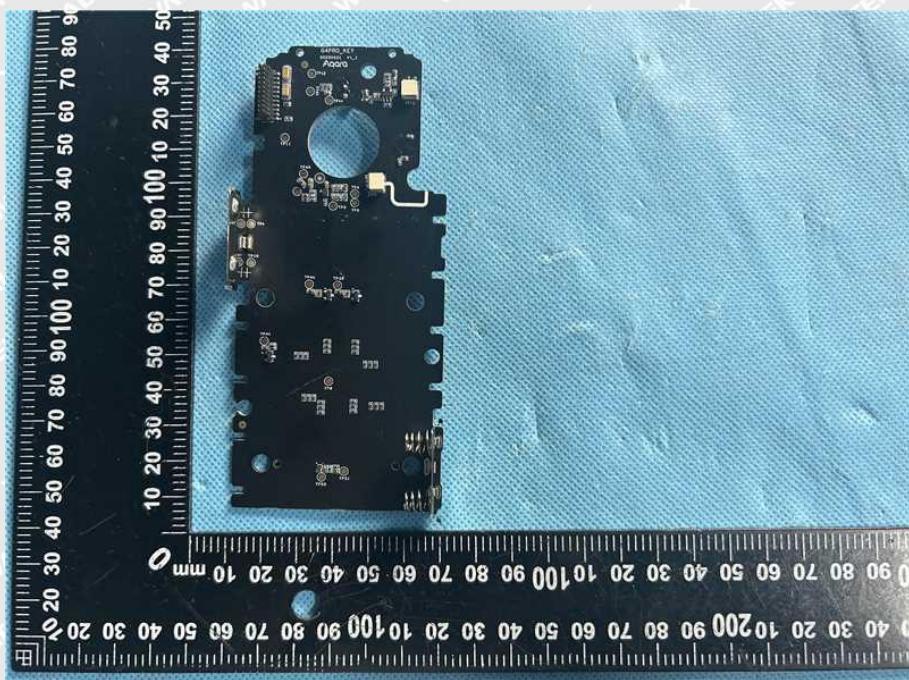
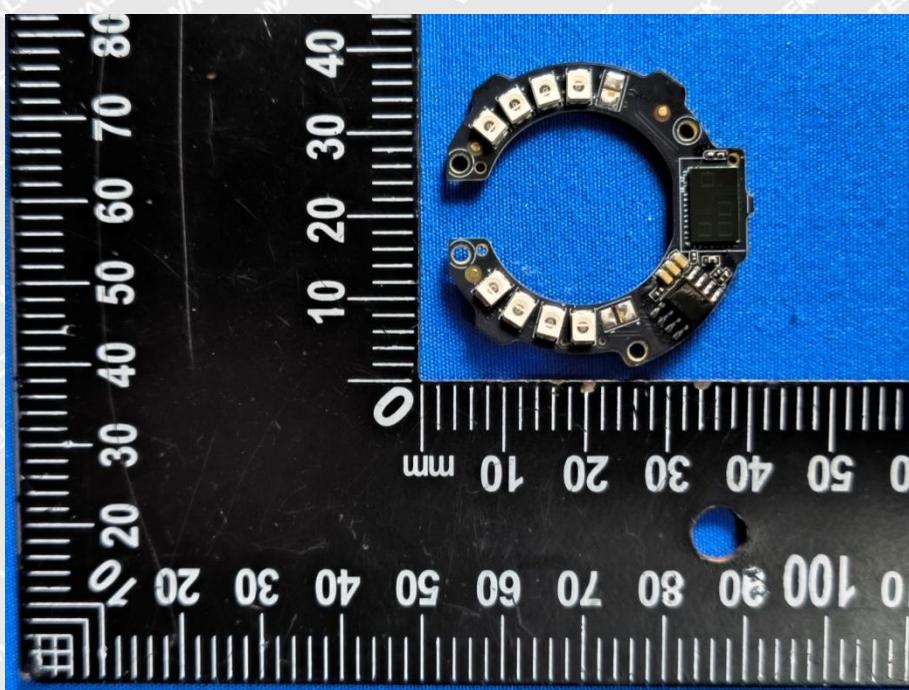




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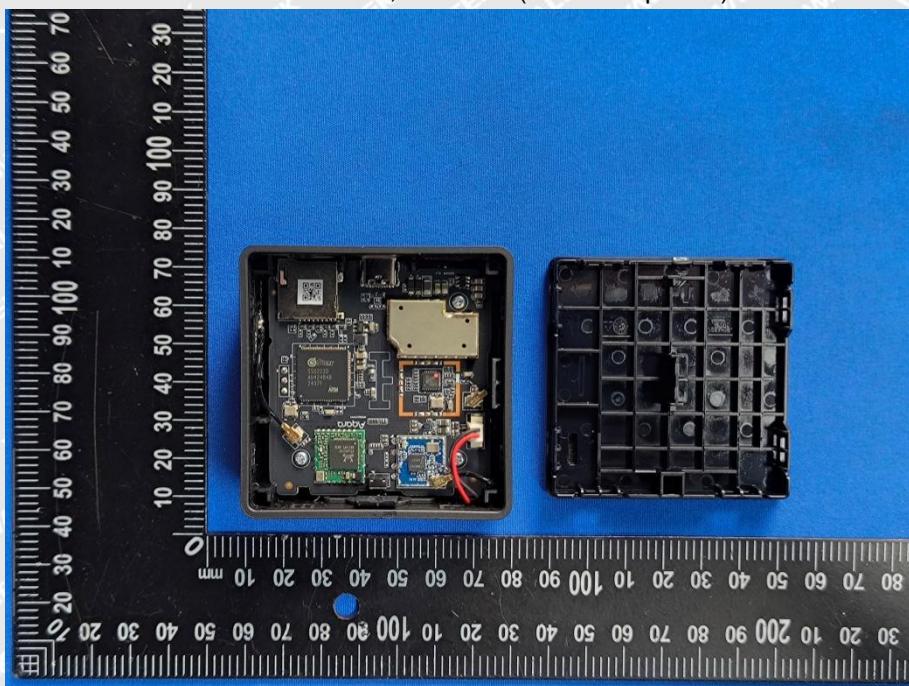


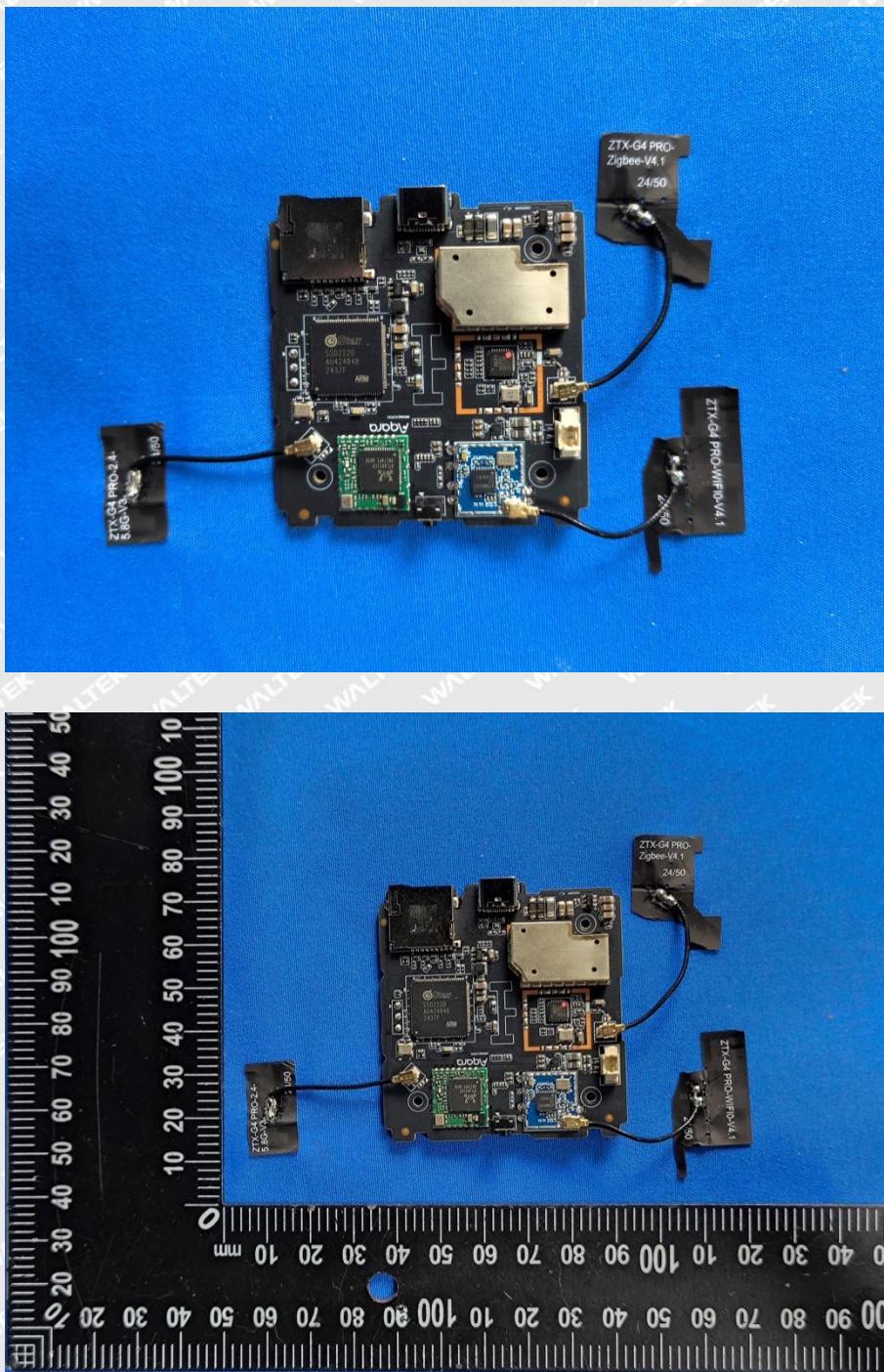






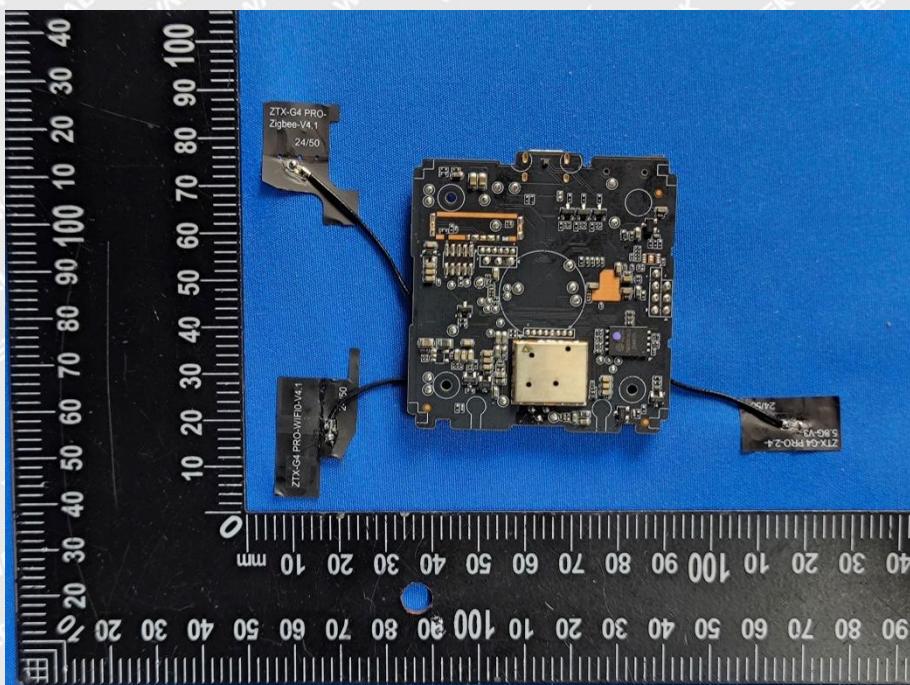
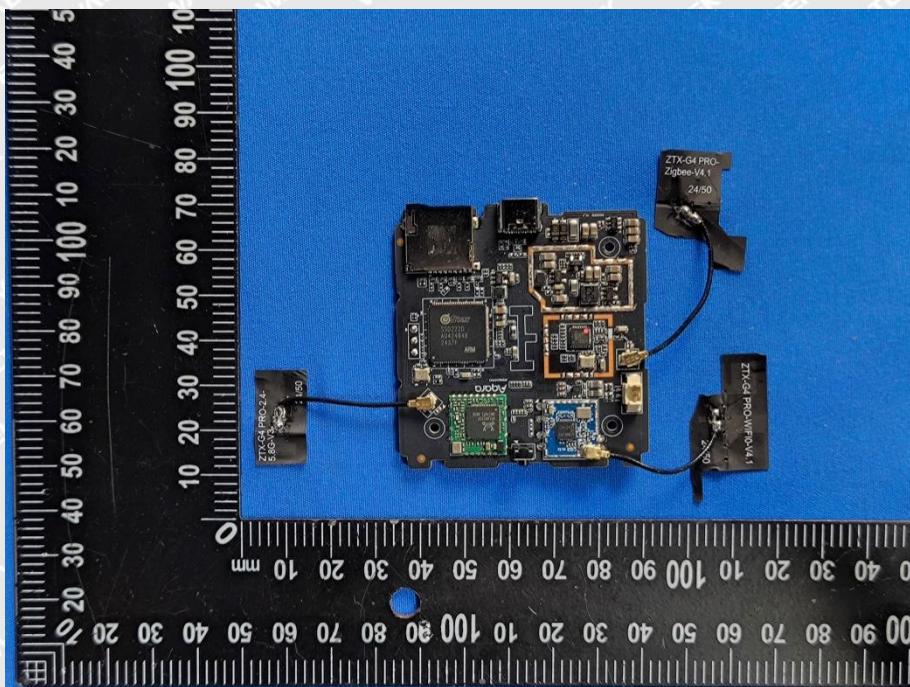
Model: CH-C11E, CH-C11D(Chime Repeater)





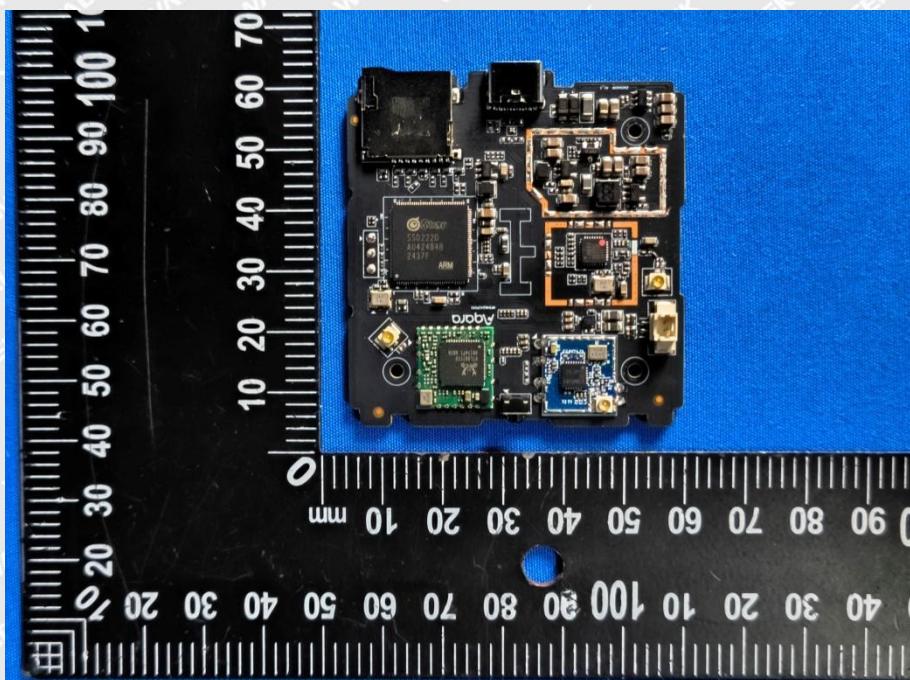
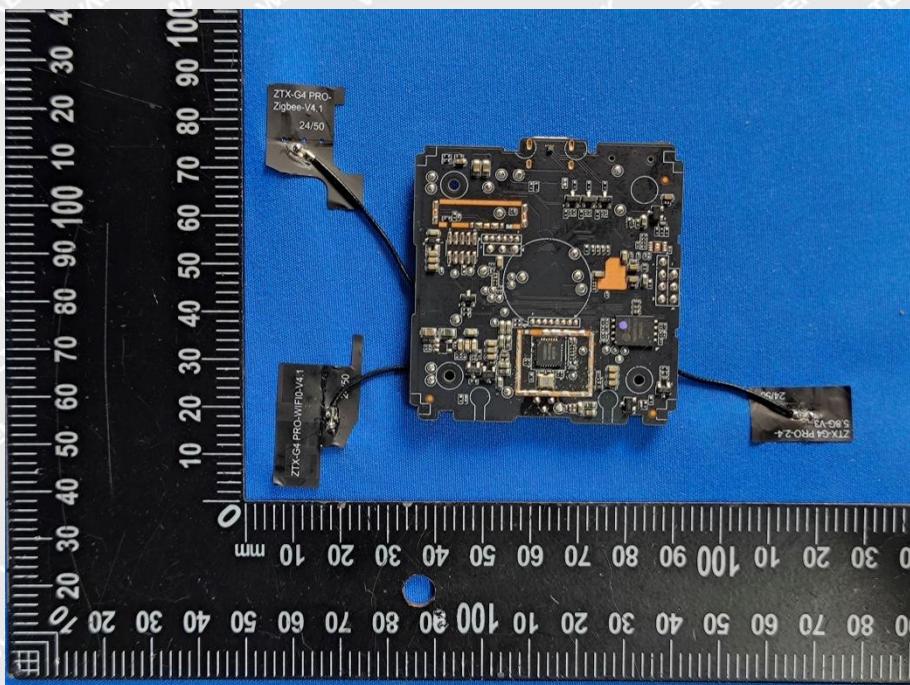


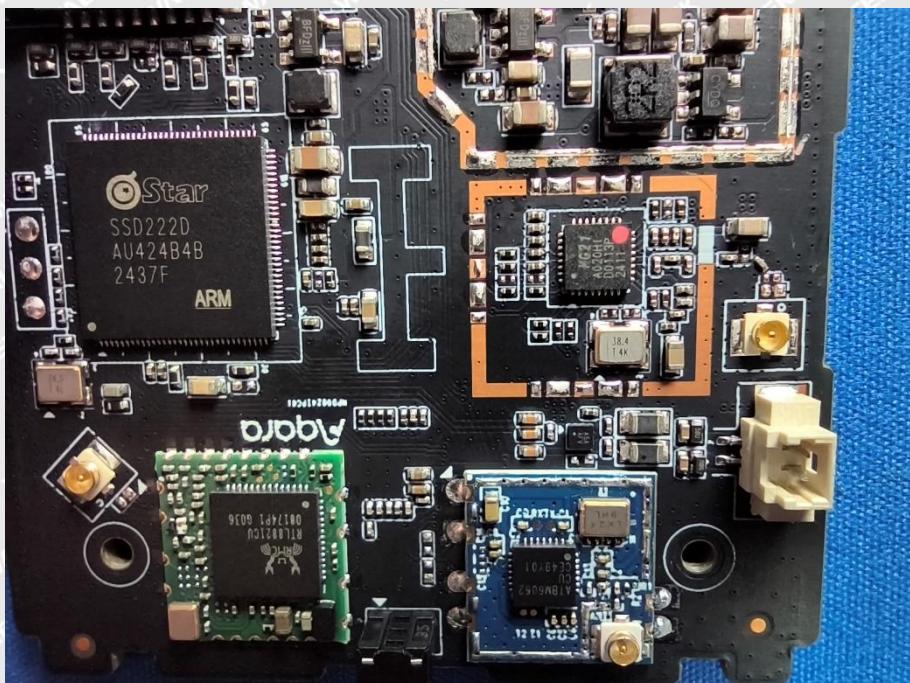
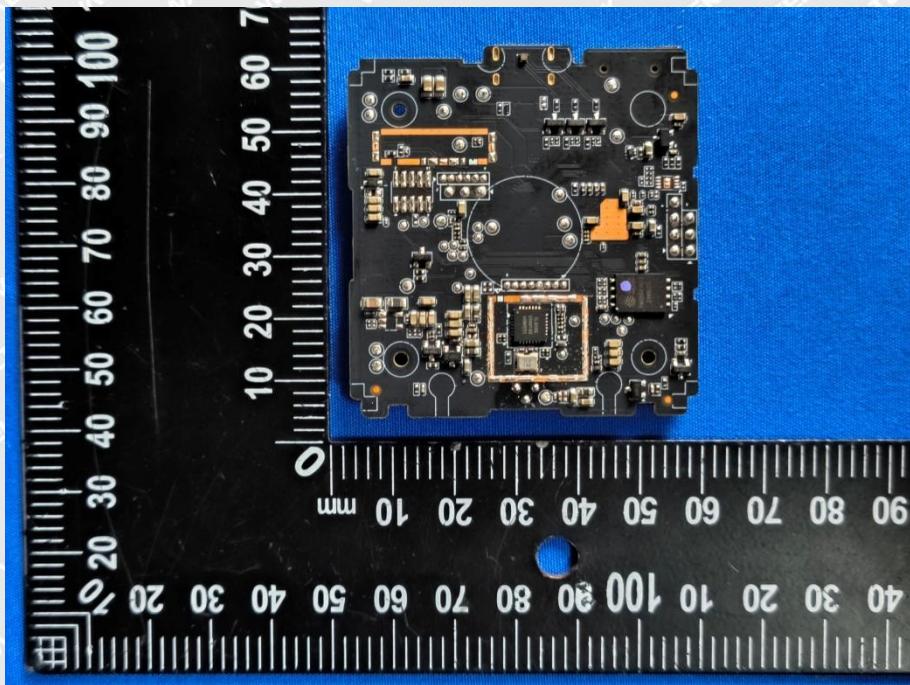
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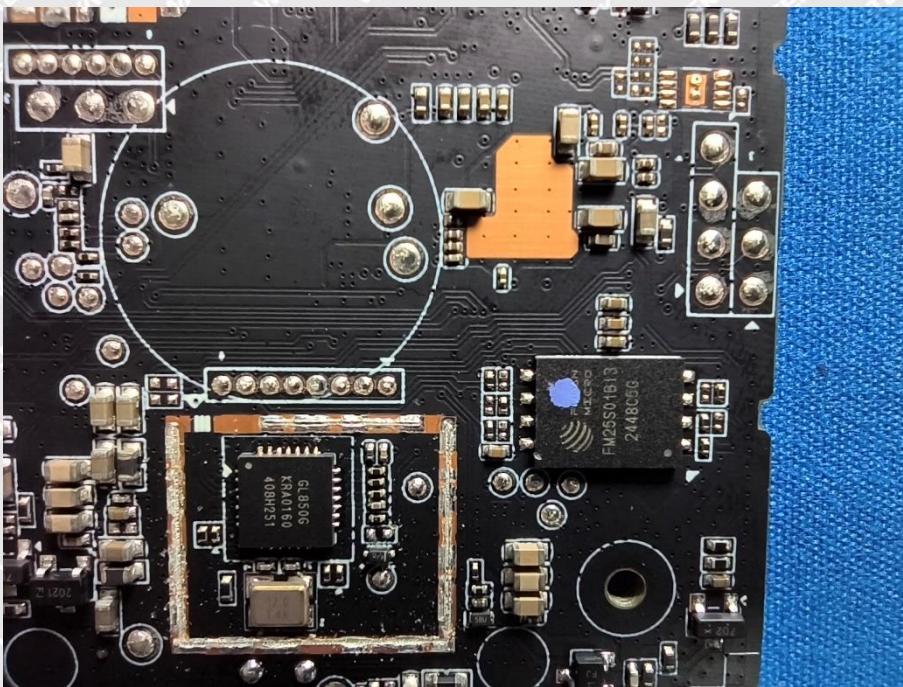




Reference No.: WTX24X12296799E







WALTEK

7. EXHIBIT 3 - TEST SETUP PHOTOGRAPHS

Conducted emissions from AC mains power ports (150kHz-30MHz)

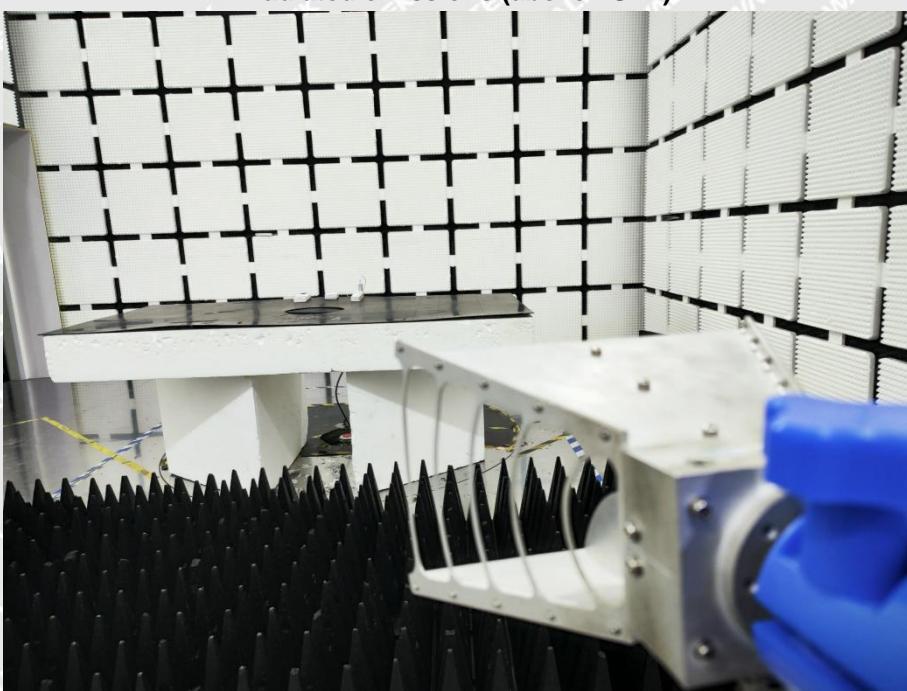


Radiated emissions (30MHz-1GHz)





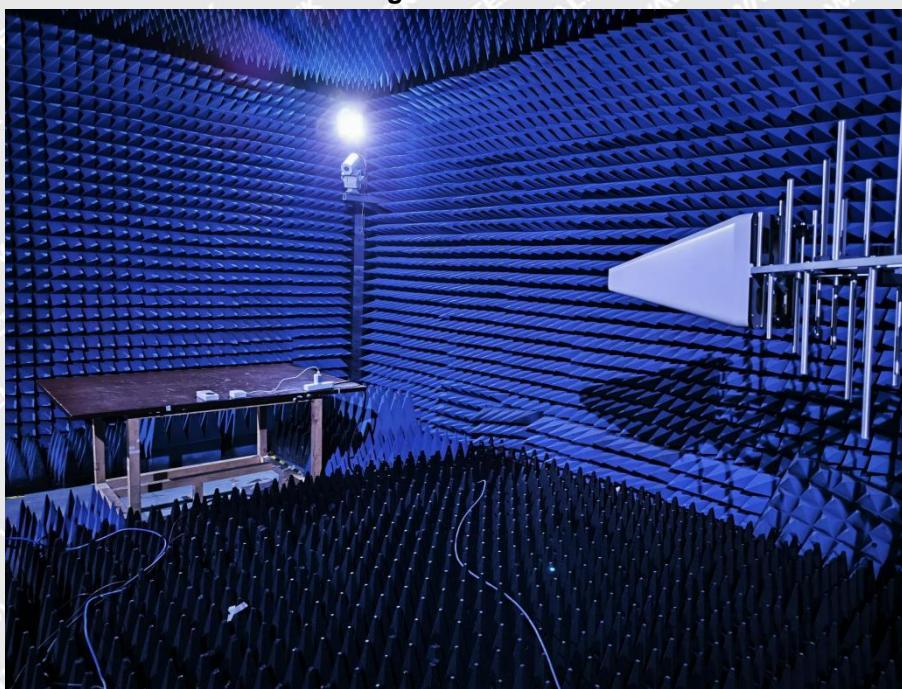
Radiated emissions (above 1GHz)



Electrostatic discharges



RF electromagnetic field disturbances



**Electrical fast transients / burst for AC mains power ports
Surges for AC mains power ports
Voltage dips and interruptions**



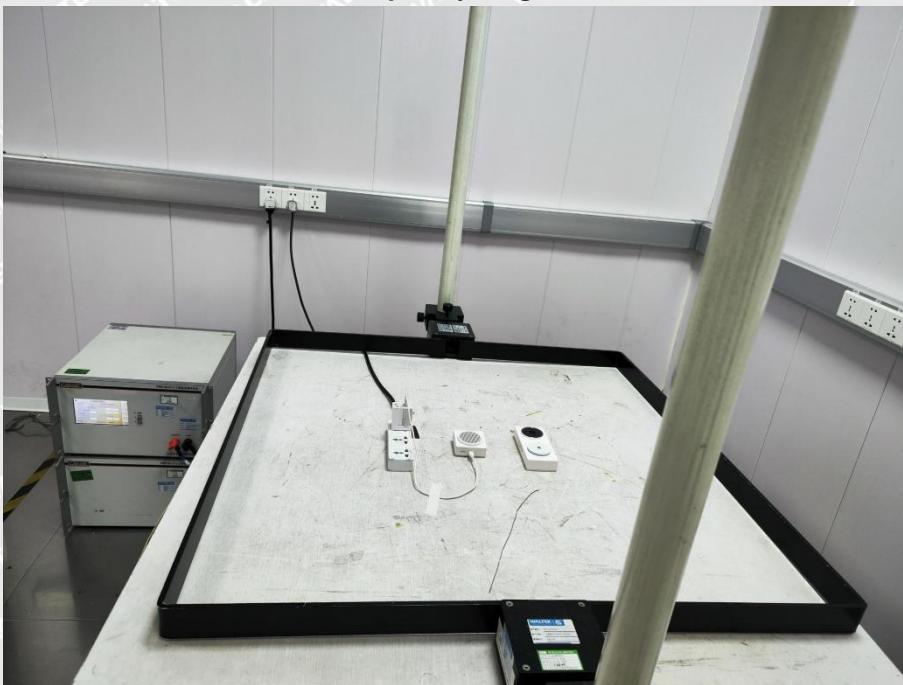


Reference No.: WTX24X12296799E

Continuous induced RF disturbances for AC mains power ports (150kHz-80MHz)



Power frequency magnetic field



***** END OF REPORT *****